

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
Mr. Craig Edminster
Dr. Michael Kenna, USGA Green Section
Dr. Dennis Martin, Oklahoma State University
Dr. Gwen Stahnke, Washington State University
Mr. Ike Thomas, Turfgrass America, Inc.
Dr. Clark Throssell, Golf Course Superintendents Assoc. of America
Dr. Thomas Voigt, University of Illinois

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
www.ntep.org

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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>
Alabama	Auburn	AL1
Arizona	Tucson	AZ1
Illinois	Urbana	IL1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington (With Fungicides)	KY1
Kentucky	Lexington (Without Fungicides)	KY2
Maine	Orono	ME1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
New York	Ithaca	NY1
Oklahoma	Stillwater	OK1
Pennsylvania	University Park	PA1
Texas	Dallas	TX1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup (With Fungicides)	WA3
Washington	Puyallup (Without Fungicides)	WA4
Wisconsin	Madison (With Fungicides)	WI1
Wisconsin	Madison (Without Fungicides)	WI1

1998 NATIONAL BENTGRASS TEST
(Putting Green)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	Backspin	creeping	Turf Merchants, Inc.
2	Bavaria	velvet	Turf Merchants, Inc.
3	ABT-CRB-1	creeping	Budd Seeds
4	Crenshaw	creeping	ProSeeds Marketing, Inc
5	L-93	creeping	Standard Entry
6	Century	creeping	ProSeeds Marketing, Inc
7	Imperial	creeping	ProSeeds Marketing, Inc
8	ISI-Ap-5	creeping	DLF International Seeds, Inc.
9	BAR CB 8US3	creeping	Barenbrug USA, Inc.
10	Bengal (BAR AS 8FUS2)	creeping	Barenbrug USA, Inc.
11	Vesper (Pick MVB)	velvet	Pickseed West, Inc.
12	Pick CB 13-94	creeping	Pickseed West, Inc.
13	Syn 96-1	creeping	Texas A&M University
14	Syn 96-2	creeping	Pickseed West, Inc.
15	Syn 96-3	creeping	Texas A&M University
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	Providence	creeping	Seed Research of Oregon
20	SRX 1NJH	creeping	Seed Research of Oregon
21	SR 7200	velvet	Seed Research of Oregon
22	PST-A2E	creeping	Pure-Seed Testing, Inc.
23	Pennlinks	creeping	Tee-2-Green Corp.
24	Penncross	creeping	Standard Entry
25	Penn G-6	creeping	Tee-2-Green Corp.
26	Penn G-1	creeping	Tee-2-Green Corp.
27	Penn A-4	creeping	Tee-2-Green Corp.
28	Penn A-1	creeping	Tee-2-Green Corp.
29	Penn A-2	creeping	Tee-2-Green Corp.

TABLE A.

2002 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1998 NATIONAL BENTGRASS (GREEN) TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
AL1	SAND	5.6-6.0	61-150	151-240	6.1-7.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
AZ1	SAND	8.6+	0-60	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IA1	-	-	-	-	-	-	-	-
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	SAND	7.1-7.5	0-60	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY1	SAND	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY2	SAND	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
ME1	-	-	-	-	-	-	-	-
MI1	SANDY LOAM	7.1-7.5	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MO1	SAND	7.1-7.5	61-150	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NE1	SAND	8.6+	61-150	241-375	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SAND	6.6-7.0	0-60	0-150	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
OK1	SAND	7.1-7.5	0-60	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
PA1	LOAMY SAND	6.6-7.0	61-150	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
TX1	SAND	7.6-8.5	0-60	0-150	8.1+	FULL SUN	0.0-0.5	TO PREVENT STRESS
UT1	SAND	6.6-7.0	61-150	0-150	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
VA1	-	-	-	-	-	-	-	-
WA3	SAND	6.1-6.5	0-60	151-240	6.1-7.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA4	SAND	6.1-6.5	0-60	151-240	6.1-7.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WI1	SILTY CLAY LOAM	7.6-8.5	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WI2	SILTY CLAY LOAM	7.6-8.5	61-150	151-240	2.1-3.0	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
AL1	X	X	X	X	X	X	X	X	X	X	X	X	X		X
AZ1	X	X	X	X	X	X	X	X	X	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	
KS1				X	X	X	X	X	X	X					
KY1			X	X	X	X	X		X	X			X		
KY2			X	X	X	X	X		X	X			X		
ME1					X	X	X	X	X	X			X		
MI1				X	X	X	X	X	X	X	X		X	X	X
MO1			X	X	X	X	X	X	X	X	X		X		
NE1				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
OK1			X	X	X	X	X	X	X	X	X		X	X	X
PA1					X	X	X	X	X	X			X		
TX1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UT1					X	X	X	X	X	X			X		
VA1		X	X	X	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	
WI2				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	WINTER COLOR	PERCENT WINTER KILL	DROUGHT TOLERANCE WILTING	DROUGHT TOLERANCE DORMANCY	DOLLAR SPOT	BROWN PATCH WARM TEMP.	PYTHIUM BLIGHT	CUTWORM
AL1														
AZ1	X	X	X	X	X	X	X		X					
IA1														
IL1	X	X	X											
KS1								X						
KY1														
KY2														
ME1										X			X	X
MI1	X	X	X	X	X	X						X		
MO1				X	X	X					X		X	
NE1			X											
NJ1		X									X			
NY1														
OK1				X		X	X				X			
PA1	X		X								X	X		
TX1	X	X	X				X				X			
UT1	X		X											
VA1	X	X	X									X		
WA3	X	X	X											
WA4														
WI1	X	X	X											
WI2	X	X	X											

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2002

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	POA ANNUA	PERCENT PINK SNOW MOLD	PERCENT DOLLAR SPOT	PERCENT BROWN PATCH	DOLLAR SPOT JULY	DOLLAR SPOT AUGUST	DOLLAR SPOT SEPTEMBER	DOLLAR SPOT OCTOBER
AL1												
AZ1	X	X	X	X								
IA1												
IL1												
KS1												
KY1							X	X				
KY2							X	X				
ME1						X					X	X
MI1									X		X	
MO1												
NE1												
NJ1												
NY1												
OK1												
PA1												
TX1												
UT1												
VA1									X	X	X	
WA3												
WA4												
WI1							X					
WI2							X					

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENIGRASS CULTIVARS GROWN ON
A SAND GREEN AT ELEVEN LOCATIONS IN THE U.S. 1/
2002 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/											
	AL1	AZ1	KY1	MO1	NJ1	OK1	PA1	TX1	UT1	VA1	WA3	MEAN
* PENN A-1	6.0	7.3	7.6	4.1	7.1	7.6	7.8	6.4	4.9	5.3	6.1	6.4
* PENN A-2	6.2	7.3	6.9	4.7	6.2	7.0	7.3	6.4	4.6	5.4	6.0	6.2
* PENN A-4	6.2	7.9	6.7	4.3	6.5	7.0	7.1	6.0	4.5	4.8	6.1	6.1
* PENN G-1	6.2	7.4	7.1	4.7	5.7	6.9	7.4	6.1	4.0	5.1	6.1	6.1
PST-A2E	6.0	7.1	6.4	4.3	6.0	6.7	6.6	6.3	4.4	4.9	6.3	5.9
* PENN G-6	5.5	6.7	6.3	4.4	5.9	6.9	6.9	6.0	4.4	5.2	5.6	5.8
* L-93	5.7	7.0	6.5	4.2	6.2	6.9	6.6	6.6	3.8	5.0	4.6	5.7
* BENGAL (BAR AS 8FUS2)	6.0	7.0	6.9	4.3	5.5	6.7	6.7	6.2	4.1	4.5	4.7	5.7
SYN 96-3	5.3	6.3	5.5	4.2	5.7	6.7	7.9	6.1	3.8	4.9	6.2	5.7
ISI AP-5	5.7	7.4	6.3	3.9	5.4	6.9	6.8	5.9	4.4	4.3	5.4	5.7
SYN 96-1	5.3	7.1	5.4	4.2	5.0	6.3	7.8	6.2	3.5	4.5	6.1	5.6
BAR CB 8US3	6.1	7.2	5.8	4.9	4.8	6.6	6.2	5.6	4.5	4.1	5.5	5.6
SYN 96-2	4.9	6.3	6.1	3.8	5.5	6.0	7.7	6.2	3.8	4.9	5.9	5.6
SRX 1NJH	5.4	6.4	6.9	3.4	5.2	6.9	6.3	6.0	4.1	5.0	5.5	5.6
PICK CB 13-94	5.8	6.7	5.9	4.4	3.9	6.6	6.7	6.1	4.3	5.0	5.4	5.5
* SR 1119	5.4	6.8	6.4	4.7	5.2	6.9	5.9	5.7	3.9	4.3	5.1	5.5
* ABT-CRB-1	4.4	6.3	6.9	3.7	5.9	7.0	6.5	6.2	3.8	4.2	5.2	5.5
* BRIGHTON (SRX 1120)	5.5	6.3	6.1	4.9	5.0	6.9	5.9	5.6	3.8	4.4	5.4	5.4
IMPERIAL	5.6	7.4	5.6	3.6	4.7	6.5	6.6	5.9	4.0	4.6	5.3	5.4
SRX 1BPAA	5.3	6.6	6.8	4.1	4.4	6.7	5.9	5.8	4.0	4.4	5.2	5.4
CENTURY	5.7	6.3	5.4	4.4	4.4	5.9	6.7	5.7	4.3	4.1	5.5	5.3
PROVIDENCE	5.4	7.0	5.4	4.0	4.5	6.7	6.1	5.4	4.3	4.1	5.1	5.3
* BACKSPIN	5.7	6.5	5.4	4.1	4.4	6.1	6.2	5.7	4.2	4.4	5.1	5.3
* CRENSHAW	5.3	6.5	5.6	4.5	4.0	6.1	5.7	5.6	3.7	4.1	4.6	5.1
* VESPER (PICK MVB)	5.0	5.6	2.8	3.7	7.5	4.7	5.7	5.4	2.3	3.8	7.1	4.9
* PENNLINKS	4.9	6.1	5.0	4.6	3.3	6.0	5.1	5.4	3.7	4.3	4.1	4.8
* PENNCROSS	4.6	6.1	5.0	4.9	3.5	6.1	4.9	5.8	2.9	4.2	3.6	4.7
* SR 7200	4.1	5.5	2.9	4.0	7.3	5.0	1.6	5.6	1.9	4.0	6.9	4.4
* BAVARIA	3.2	5.7	3.1	4.1	1.7	1.0	1.0	5.4	3.0	3.6	2.4	3.1
LSD VALUE	0.8	0.9	0.8	1.1	1.2	0.7	0.7	0.4	1.1	0.6	0.6	0.2
C.V. (%)	8.9	8.6	8.1	15.6	13.8	6.4	6.7	3.8	17.1	8.4	7.2	9.4

* 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 SOIL GREEN AT EIGHT LOCATIONS IN THE U.S. 1/
2002 DATA

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

NAME	IA1	IL1	KS1	ME1	MI1	NE1	NY1	WI1	MEAN
L-93	7.1	5.5	6.6	6.6	6.5	7.4	7.3	5.5	6.6
ISI AP-5	6.6	5.2	5.2	7.2	5.8	7.2	7.5	5.5	6.3
BENGAL (BAR AS 8FUS2)	7.1	5.6	5.2	6.7	5.7	7.1	7.5	5.3	6.3
PENN A-1	6.9	5.4	5.0	7.0	6.3	7.3	6.7	5.3	6.2
PENN G-1	6.7	5.4	5.2	7.1	6.0	6.9	7.3	5.2	6.2
PENN G-6	7.2	5.5	5.5	6.6	5.8	6.9	7.1	5.2	6.2
SYN 96-2	6.9	5.7	4.6	6.7	5.7	7.0	7.2	5.2	6.1
PENN A-4	6.9	5.3	4.0	7.0	6.1	7.3	6.7	5.6	6.1
PST-AZE	6.8	4.9	5.6	6.3	5.8	6.6	7.2	5.6	6.1
SRX 1NJH	6.8	5.4	5.8	6.9	6.1	5.7	7.0	5.1	6.1
SYN 96-1	6.9	5.3	5.0	6.7	5.7	6.6	7.5	5.0	6.1
IMPERIAL	7.2	5.2	5.0	6.2	5.6	6.9	7.2	5.2	6.1
CENTURY	7.4	5.0	5.0	7.0	5.4	6.7	7.2	4.8	6.1
SR 1119	6.6	4.8	5.4	7.0	5.7	6.4	7.5	5.2	6.1
CRENSHAW	7.0	4.9	5.2	6.5	5.2	7.2	7.5	5.0	6.1
PENN A-2	6.9	5.2	5.0	6.3	6.2	6.7	6.7	5.3	6.1
BRIGHTON (SRX 1120)	6.6	5.1	5.0	7.2	5.7	6.6	7.0	5.0	6.0
BAR CB 8US3	6.7	5.0	5.1	6.5	5.6	6.8	7.1	5.1	6.0
SYN 96-3	6.6	5.3	5.3	6.2	5.7	7.1	6.5	5.3	6.0
SRX 1BPAA	6.2	4.7	5.1	7.1	5.6	6.6	7.1	5.1	5.9
PICK CB 13-94	6.3	5.4	4.6	6.8	5.7	6.3	7.1	5.3	5.9
ABT-CRB-1	6.9	4.6	3.2	6.6	5.8	7.2	7.5	5.0	5.8
BACKSPIN	6.0	4.8	5.0	7.0	5.3	6.4	7.3	4.8	5.8
PENNLINKS	5.7	4.6	5.7	7.0	5.5	5.6	7.2	5.3	5.8
PROVIDENCE	6.3	5.0	4.5	6.7	5.5	5.9	6.9	5.0	5.7
PENNCROSS	5.1	4.4	5.3	6.8	5.4	4.7	6.7	5.3	5.5
VESPER (PICK MVB)	5.1	3.5	4.9	8.9	5.8	2.0	7.3	5.0	5.3
SR 7200	4.9	4.0	5.1	8.6	5.5	1.9	7.0	4.7	5.2
BAVARIA	5.2	3.4	4.3	6.4	5.4	2.1	7.0	4.3	4.8
LSD VALUE	0.7	0.6	1.3	0.8	0.4	0.8	0.7	0.6	0.3
C.V. (%)	6.9	7.2	16.3	7.2	4.0	8.1	6.4	7.0	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 GREEN AT SEVEN LOCATIONS
USING 2.0-4.0 LBS OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/								
NAME	AZ1	IA1	IL1	KY1	NJ1	NY1	WI1	MEAN
PENN A-1	7.3	6.9	5.4	7.6	7.1	6.7	5.3	6.6
PENN A-4	7.9	6.9	5.3	6.7	6.5	6.7	5.6	6.5
L-93	7.0	7.1	5.5	6.5	6.2	7.3	5.5	6.4
PENN G-1	7.4	6.7	5.4	7.1	5.7	7.3	5.2	6.4
BENGAL (BAR AS 8FUS2)	7.0	7.1	5.6	6.9	5.5	7.5	5.3	6.4
PENN A-2	7.3	6.9	5.2	6.9	6.2	6.7	5.3	6.3
PST-A2E	7.1	6.8	4.9	6.4	6.0	7.2	5.6	6.3
PENN G-6	6.7	7.2	5.5	6.3	5.9	7.1	5.2	6.3
ISI AP-5	7.4	6.6	5.2	6.3	5.4	7.5	5.5	6.3
ABT-CRB-1	6.3	6.9	4.6	6.9	5.9	7.5	5.0	6.2
SYN 96-2	6.3	6.9	5.7	6.1	5.5	7.2	5.2	6.1
SRX 1NJH	6.4	6.8	5.4	6.9	5.2	7.0	5.1	6.1
IMPERIAL	7.4	7.2	5.2	5.6	4.7	7.2	5.2	6.1
SR 1119	6.8	6.6	4.8	6.4	5.2	7.5	5.2	6.1
SYN 96-1	7.1	6.9	5.3	5.4	5.0	7.5	5.0	6.0
BAR CB 8US3	7.2	6.7	5.0	5.8	4.8	7.1	5.1	6.0
BRIGHTON (SRX 1120)	6.3	6.6	5.1	6.1	5.0	7.0	5.0	5.9
SYN 96-3	6.3	6.6	5.3	5.5	5.7	6.5	5.3	5.9
SRX 1BPAA	6.6	6.2	4.7	6.8	4.4	7.1	5.1	5.8
PICK CB 13-94	6.7	6.3	5.4	5.9	3.9	7.1	5.3	5.8
CENTURY	6.3	7.4	5.0	5.4	4.4	7.2	4.8	5.8
CRENSHAW	6.5	7.0	4.9	5.6	4.0	7.5	5.0	5.8
PROVIDENCE	7.0	6.3	5.0	5.4	4.5	6.9	5.0	5.7
BACKSPIN	6.5	6.0	4.8	5.4	4.4	7.3	4.8	5.6
PENNLINKS	6.1	5.7	4.6	5.0	3.3	7.2	5.3	5.3
VESPER (PICK MVB)	5.6	5.1	3.5	2.8	7.5	7.3	5.0	5.3
SR 7200	5.5	4.9	4.0	2.9	7.3	7.0	4.7	5.2
PENNCROSS	6.1	5.1	4.4	5.0	3.5	6.7	5.3	5.2
BAVARIA	5.7	5.2	3.4	3.1	1.7	7.0	4.3	4.4
LSD VALUE	0.9	0.7	0.6	0.8	1.2	0.7	0.6	0.3
C.V. (%)	8.6	6.9	7.2	8.1	13.8	6.4	7.0	8.4

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

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

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A GREEN AT NINE LOCATIONS
USING 4.1-6.0 LBS OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

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

NAME	KS1	ME1	MI1	MO1	NE1	OK1	PA1	UT1	VA1	MEAN
PENN A-1	5.0	7.0	6.3	4.1	7.3	7.6	7.8	4.9	5.3	6.1
L-93	6.6	6.6	6.5	4.2	7.4	6.9	6.6	3.8	5.0	6.0
PENN G-1	5.2	7.1	6.0	4.7	6.9	6.9	7.4	4.0	5.1	5.9
PENN A-2	5.0	6.3	6.2	4.7	6.7	7.0	7.3	4.6	5.4	5.9
PENN G-6	5.5	6.6	5.8	4.4	6.9	6.9	6.9	4.4	5.2	5.8
PENN A-4	4.0	7.0	6.1	4.3	7.3	7.0	7.1	4.5	4.8	5.8
SYN 96-3	5.3	6.2	5.7	4.2	7.1	6.7	7.9	3.8	4.9	5.8
ISI AP-5	5.2	7.2	5.8	3.9	7.2	6.9	6.8	4.4	4.3	5.7
PST-A2E	5.6	6.3	5.8	4.3	6.6	6.7	6.6	4.4	4.9	5.7
BENGAL (BAR AS 8FUS2)	5.2	6.7	5.7	4.3	7.1	6.7	6.7	4.1	4.5	5.7
BRIGHTON (SRX 1120)	5.0	7.2	5.7	4.9	6.6	6.9	5.9	3.8	4.4	5.6
BAR CB 8US3	5.1	6.5	5.6	4.9	6.8	6.6	6.2	4.5	4.1	5.6
SR 1119	5.4	7.0	5.7	4.7	6.4	6.9	5.9	3.9	4.3	5.6
SYN 96-2	4.6	6.7	5.7	3.8	7.0	6.0	7.7	3.8	4.9	5.6
PICK CB 13-94	4.6	6.8	5.7	4.4	6.3	6.6	6.7	4.3	5.0	5.6
SYN 96-1	5.0	6.7	5.7	4.2	6.6	6.3	7.8	3.5	4.5	5.6
SRX 1NJH	5.8	6.9	6.1	3.4	5.7	6.9	6.3	4.1	5.0	5.6
SRX 1BPAA	5.1	7.1	5.6	4.1	6.6	6.7	5.9	4.0	4.4	5.5
CENTURY	5.0	7.0	5.4	4.4	6.7	5.9	6.7	4.3	4.1	5.5
IMPERIAL	5.0	6.2	5.6	3.6	6.9	6.5	6.6	4.0	4.6	5.4
BACKSPIN	5.0	7.0	5.3	4.1	6.4	6.1	6.2	4.2	4.4	5.4
CRENSHAW	5.2	6.5	5.2	4.5	7.2	6.1	5.7	3.7	4.1	5.3
PROVIDENCE	4.5	6.7	5.5	4.0	5.9	6.7	6.1	4.3	4.1	5.3
ABT-CRB-1	3.2	6.6	5.8	3.7	7.2	7.0	6.5	3.8	4.2	5.3
PENNLINKS	5.7	7.0	5.5	4.6	5.6	6.0	5.1	3.7	4.3	5.3
PENNCROSS	5.3	6.8	5.4	4.9	4.7	6.1	4.9	2.9	4.2	5.0
VESPER (PICK MVB)	4.9	8.9	5.8	3.7	2.0	4.7	5.7	2.3	3.8	4.7
SR 7200	5.1	8.6	5.5	4.0	1.9	5.0	1.6	1.9	4.0	4.2
BAVARIA	4.3	6.4	5.4	4.1	2.1	1.0	1.0	3.0	3.6	3.4
LSD VALUE	1.3	0.8	0.4	1.1	0.8	0.7	0.7	1.1	0.6	0.3
C.V. (%)	16.3	7.2	4.0	15.6	8.1	6.4	6.7	17.1	8.4	9.8

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

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

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A GREEN AT THREE LOCATIONS
USING 6.1+ LBS OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

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

NAME	AL1	TX1	WA3	MEAN
PENN A-2	6.2	6.4	6.0	6.2
PST-A2E	6.0	6.3	6.3	6.2
PENN A-1	6.0	6.4	6.1	6.2
PENN G-1	6.2	6.1	6.1	6.2
PENN A-4	6.2	6.0	6.1	6.1
SYN 96-1	5.3	6.2	6.1	5.9
SYN 96-3	5.3	6.1	6.2	5.8
VESPER (PICK MVB)	5.0	5.4	7.1	5.8
PICK CB 13-94	5.8	6.1	5.4	5.8
BAR CB 8US3	6.1	5.6	5.5	5.8
PENN G-6	5.5	6.0	5.6	5.7
ISI AP-5	5.7	5.9	5.4	5.7
SYN 96-2	4.9	6.2	5.9	5.6
BENGAL (BAR AS 8FUS2)	6.0	6.2	4.7	5.6
L-93	5.7	6.6	4.6	5.6
CENTURY	5.7	5.7	5.5	5.6
IMPERIAL	5.6	5.9	5.3	5.6
SRX 1NJH	5.4	6.0	5.5	5.6
SR 7200	4.1	5.6	6.9	5.5
BRIGHTON (SRX 1120)	5.5	5.6	5.4	5.5
BACKSPIN	5.7	5.7	5.1	5.5
SRX 1BPAA	5.3	5.8	5.2	5.4
SR 1119	5.4	5.7	5.1	5.4
PROVIDENCE	5.4	5.4	5.1	5.3
ABT-CRB-1	4.4	6.2	5.2	5.3
CRENSHAW	5.3	5.6	4.6	5.2
PENNLINKS	4.9	5.4	4.1	4.8
PENNCROSS	4.6	5.8	3.6	4.6
BAVARIA	3.2	5.4	2.4	3.7
LSD VALUE	0.8	0.4	0.6	0.4
C.V. (%)	8.9	3.8	7.2	6.8

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

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

TABLE 6. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN AT THREE LOCATIONS WITHOUT FUNGICIDES IN THE U.S. 1/
2002 DATA

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

NAME	KY2	WA4	WI2	MEAN
PENN A-1	6.1	5.4	5.3	5.6
PST-A2E	5.5	5.7	5.5	5.6
PENN A-4	5.8	5.3	5.6	5.5
PENN G-1	5.9	5.5	5.2	5.5
ISI AP-5	5.9	4.9	5.5	5.4
PENN A-2	5.9	5.3	5.2	5.4
SRX 1NJH	6.1	5.1	5.1	5.4
SYN 96-3	5.3	5.4	5.3	5.4
SRX 1BPAA	6.0	5.0	5.0	5.3
PENN G-6	5.4	5.3	5.2	5.3
SYN 96-2	5.3	5.4	5.2	5.3
L-93	5.8	4.6	5.4	5.3
BRIGHTON (SRX 1120)	5.5	5.1	5.0	5.2
ABT-CRB-1	5.7	4.8	5.0	5.2
BENGAL (BAR AS 8FUS2)	5.8	4.4	5.3	5.2
SYN 96-1	5.0	5.4	5.0	5.2
BAR CB 8US3	5.2	5.1	5.1	5.1
PICK CB 13-94	4.9	5.1	5.3	5.1
IMPERIAL	5.1	5.0	5.2	5.1
SR 1119	5.5	4.6	5.1	5.1
PROVIDENCE	5.1	4.8	5.0	4.9
CENTURY	4.9	5.0	4.8	4.9
BACKSPIN	4.8	4.7	4.9	4.8
VESPER (PICK MVB)	2.5	6.9	5.0	4.8
CRENSHAW	4.9	4.3	5.0	4.8
SR 7200	2.7	6.8	4.6	4.7
PENNLINKS	4.6	4.0	5.2	4.6
PENNCROSS	4.4	3.6	5.2	4.4
BAVARIA	2.7	2.3	4.3	3.1
LSD VALUE	0.6	0.7	0.5	0.4
C.V. (%)	6.8	9.1	6.6	7.5

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 7.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AL1	AZ1	IA1	IL1	KY1	KY2	ME1	MI1	MO1	NE1	NJ1	OK1	PA1	TX1	UT1	WA3	WI1	WI2	MEAN
SR 1119	6.7	6.7	6.7	5.7	8.7	6.3	7.7	5.0	6.7	7.3	7.7	7.3	6.0	7.3	5.5	6.7	7.0	7.0	6.8
SYN 96-2	7.7	6.7	7.3	5.0	8.3	7.7	7.0	5.0	4.7	7.3	7.0	7.3	7.0	7.7	4.0	7.3	7.0	7.0	6.7
PENN A-2	6.3	7.0	7.0	6.0	8.7	6.3	7.7	5.0	6.3	7.3	7.7	8.0	6.0	7.3	2.5	7.3	7.0	7.0	6.7
BRIGHTON (SRX 1120)	7.3	6.3	6.3	6.0	8.3	6.7	8.0	5.0	7.3	7.0	6.0	7.7	5.0	7.7	4.5	7.0	7.0	7.0	6.7
PENN G-1	6.7	6.7	7.3	5.3	8.3	7.3	6.7	5.0	6.3	6.7	7.0	7.7	6.3	7.3	4.5	7.7	6.7	6.7	6.7
L-93	7.0	6.0	7.7	5.7	7.7	6.7	7.3	5.0	6.7	7.0	6.7	7.3	5.7	7.3	5.0	7.0	7.0	7.0	6.6
PENN A-1	7.0	6.3	6.3	5.7	7.7	6.3	6.3	5.0	5.3	6.7	8.7	8.0	6.3	7.0	5.0	7.7	7.0	7.0	6.6
PENN A-4	7.3	7.0	7.0	5.3	8.3	7.3	7.0	5.0	5.0	7.0	6.7	7.0	6.0	7.3	4.0	7.3	7.0	7.0	6.6
SRX 1NJH	8.0	6.3	6.7	5.7	8.3	6.7	7.3	5.0	5.7	7.7	6.0	7.0	6.3	7.3	3.0	7.3	7.0	7.0	6.6
ISI AP-5	6.7	6.7	6.3	5.7	8.0	6.3	8.0	5.0	5.3	6.3	6.3	7.0	6.3	8.0	4.0	8.0	7.0	7.0	6.6
PST-A2E	6.3	6.7	7.3	6.0	7.3	6.3	6.3	5.0	5.3	7.0	7.3	7.3	6.0	7.3	4.3	7.7	7.0	7.0	6.5
BAR CB 8US3	7.0	7.3	6.3	6.0	8.3	7.0	7.3	5.3	6.0	7.0	5.3	7.0	5.0	7.3	4.0	7.3	6.7	6.7	6.5
PROVIDENCE	6.7	6.0	6.3	6.3	7.3	6.7	7.7	5.0	6.0	7.0	7.3	7.3	4.7	7.3	4.0	6.7	7.0	7.0	6.5
SRX 1BPAA	8.0	6.3	6.7	5.7	7.3	5.0	7.7	5.0	5.7	7.3	6.0	7.0	5.0	7.7	4.0	7.0	7.0	7.0	6.4
CRENSHAW	6.7	6.3	7.3	6.0	7.3	6.7	7.3	5.0	5.0	7.3	5.3	6.7	5.7	7.7	4.5	6.3	7.0	7.0	6.4
PENN G-6	5.7	6.0	6.7	5.7	8.3	6.3	7.3	5.0	5.7	7.0	6.7	7.3	6.3	7.3	3.0	6.3	6.7	6.7	6.3
ABT-CRB-1	6.0	7.0	6.3	6.0	7.0	5.7	6.3	5.0	5.3	7.0	7.3	7.0	5.3	7.3	4.5	6.7	7.0	7.0	6.3
SYN 96-3	6.0	6.0	6.3	5.3	6.3	5.3	7.3	5.0	4.7	6.7	7.7	7.3	7.0	7.7	3.0	8.0	7.0	7.0	6.3
IMPERIAL	5.3	6.0	7.0	5.0	8.0	7.3	7.0	5.0	4.7	5.7	6.3	7.7	5.0	7.7	5.0	6.7	7.0	7.0	6.3
VESPER (PICK MVB)	5.0	6.0	6.3	7.0	1.0	1.0	9.0	5.3	4.0	.	9.0	7.7	9.0	7.0	3.5	9.0	8.0	8.0	6.2
PICK CB 13-94	5.7	6.3	7.0	5.7	6.7	5.0	7.7	5.3	4.7	7.0	5.0	7.0	6.3	7.7	4.0	7.0	7.0	7.0	6.2
BENGAL (BAR AS 8FUS2)	6.0	6.0	7.0	5.0	7.7	5.7	7.3	5.0	5.7	6.3	5.7	7.0	6.0	7.3	4.5	6.0	6.7	6.7	6.2
CENTURY	6.7	5.7	6.7	5.0	7.3	6.3	7.7	5.0	5.7	6.0	3.7	7.3	6.0	7.0	4.5	7.0	7.0	7.0	6.2
SR 7200	4.7	6.0	6.7	6.0	1.0	1.0	9.0	5.0	4.0	.	8.7	6.7	8.0	7.3	4.5	9.0	8.0	8.0	6.1
SYN 96-1	5.0	6.3	7.3	5.0	6.7	5.3	7.3	5.0	5.0	5.3	5.0	7.0	6.7	7.3	3.0	7.0	7.0	7.0	6.0
BACKSPIN	5.0	6.0	6.3	5.0	6.0	5.3	8.0	5.0	5.7	6.0	5.3	7.0	5.7	7.0	4.0	5.7	7.0	7.0	5.9
PENNCROSS	5.7	6.0	6.0	4.7	6.3	5.3	7.7	5.0	5.7	6.3	4.0	7.0	5.3	7.0	4.5	6.0	7.0	7.0	5.9
PENNLINKS	6.0	5.7	6.7	4.7	6.3	5.0	7.7	5.0	5.7	6.3	3.3	7.0	4.7	7.0	2.5	5.0	6.7	6.7	5.7
BAVARIA	3.7	6.3	6.3	5.7	1.0	1.0	7.3	5.0	4.7	.	.	6.0	.	7.3	4.0	5.0	7.3	7.3	5.2
LSD VALUE	1.4	0.7	1.2	0.7	1.0	1.5	1.1	0.3	1.8	0.8	1.8	0.7	0.9	0.8	1.9	1.2	0.4	0.4	0.3
C.V. (%)	13.5	6.8	10.9	7.4	9.5	16.1	9.0	3.7	21.1	7.7	17.1	6.1	9.8	6.8	23.8	10.6	3.7	3.7	10.7

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 8.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1	IA1	IL1	MI1	NE1	NY1	OK1	TX1	VA1	WA3	WI1	WI2	MEAN
SRX 1NJH	6.3	6.0	7.0	5.3	7.7	6.7	6.0	7.3	6.0	4.3	4.7	5.0	6.0
PST-A2E	5.7	6.7	6.7	4.3	7.0	7.0	5.3	8.0	5.0	6.7	5.0	4.7	6.0
IMPERIAL	7.0	6.7	6.3	4.3	8.0	7.0	5.7	7.7	5.7	5.0	4.3	4.0	6.0
PENN A-2	6.3	6.3	6.3	4.0	8.0	7.0	6.0	7.3	5.0	6.0	4.7	4.0	5.9
PENN A-4	7.0	6.0	6.0	4.0	7.7	6.7	5.3	7.0	5.0	5.7	5.0	5.0	5.9
SYN 96-2	8.5	7.7	7.0	4.0	6.3	7.0	4.7	7.3	5.3	5.0	3.0	4.0	5.8
PENN A-1	6.7	7.3	6.7	4.0	6.7	7.0	5.0	7.7	5.0	5.0	3.7	5.0	5.8
PENN G-6	6.0	6.3	6.3	4.0	6.7	7.0	5.7	7.3	5.7	5.3	4.7	4.7	5.8
PENN G-1	7.7	5.7	6.0	4.0	7.3	7.0	5.7	7.3	5.0	6.0	4.0	3.3	5.8
VESPER (PICK MVB)	5.3	5.3	7.3	4.0	.	7.7	4.3	7.3	7.0	4.7	5.3	4.7	5.7
BAR CB 8US3	6.7	6.0	6.0	4.0	7.7	7.0	5.3	7.0	4.7	5.3	4.7	4.3	5.7
SYN 96-1	7.0	7.0	6.0	4.0	7.0	7.3	4.3	7.0	5.7	5.3	4.0	4.0	5.7
SYN 96-3	6.0	7.0	6.3	4.3	8.0	6.3	5.3	7.0	6.0	4.3	4.0	4.0	5.7
ISI AP-5	7.0	5.7	6.0	4.0	7.0	7.0	5.7	7.3	4.7	4.7	4.7	5.0	5.7
ABT-CRB-1	7.3	6.7	6.7	4.0	6.3	7.7	4.7	7.7	4.3	4.7	3.3	5.0	5.7
BENGAL (BAR AS 8FUS2)	5.3	7.7	6.0	4.3	7.0	7.0	5.7	7.3	4.7	5.0	3.7	4.7	5.7
CRENSHAW	6.7	6.7	6.3	4.0	7.7	7.0	5.0	7.7	4.7	4.3	4.0	4.3	5.7
BRIGHTON (SRX 1120)	6.0	5.7	6.7	4.0	8.3	7.0	5.7	7.7	4.3	5.0	4.0	3.7	5.7
PICK CB 13-94	6.3	6.0	7.0	4.0	7.0	7.3	4.0	7.3	5.3	3.7	4.7	4.7	5.6
SR 1119	6.3	5.7	6.0	4.0	8.0	7.0	5.7	7.3	5.0	4.7	4.0	3.7	5.6
L-93	5.3	5.7	6.3	4.0	7.3	7.0	5.7	7.3	4.7	4.7	4.3	4.7	5.6
BACKSPIN	6.3	6.0	5.7	4.0	7.3	6.7	5.7	7.3	5.0	4.3	4.0	4.3	5.6
PROVIDENCE	5.7	6.0	5.7	4.3	8.0	7.0	5.0	7.7	4.3	4.7	4.0	4.0	5.5
SR 7200	5.7	4.3	7.3	4.0	.	6.7	4.3	7.7	6.3	4.7	5.3	4.3	5.5
CENTURY	6.0	6.3	5.7	4.0	7.3	7.0	4.7	7.3	4.7	5.0	3.7	4.3	5.5
SRX 1BPAA	5.7	5.7	6.0	4.0	7.7	7.0	5.3	8.0	4.3	4.3	3.7	3.3	5.4
PENNCROSS	5.7	5.0	5.7	4.0	7.0	6.7	5.0	7.0	3.7	5.0	4.3	4.3	5.3
PENLINKS	5.0	5.7	6.0	4.0	6.7	6.7	5.0	7.0	3.3	5.7	4.0	3.7	5.2
BAVARIA	5.7	4.0	6.3	4.0	.	6.7	4.7	7.7	5.0	4.7	4.3	3.7	5.2
LSD VALUE	1.3	1.3	1.1	0.6	2.0	0.8	1.4	0.8	1.3	1.5	1.4	1.7	0.4
C.V. (%)	12.5	13.4	10.5	9.1	16.7	7.1	16.4	6.6	16.2	19.4	20.8	24.1	14.3

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 9. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AL1	AZ1	IA1	MI1	NJ1	NY1	OK1	TX1	MEAN
PENN A-1	7.7	7.7	7.7	8.0	8.3	7.0	7.7	8.0	7.8
PENN G-1	7.7	8.0	7.0	7.7	8.0	7.3	8.0	8.0	7.7
PENN A-4	7.3	8.3	7.3	7.0	8.0	7.0	8.0	8.0	7.6
VESPER (PICK MVB)	8.3	6.3	7.3	7.7	9.0	7.3	7.3	7.3	7.6
IMPERIAL	7.0	7.7	7.3	7.7	7.0	7.3	7.7	8.0	7.5
SR 7200	8.7	6.3	7.3	7.0	9.0	7.0	7.3	7.0	7.5
PENN A-2	7.7	7.3	7.0	7.7	7.0	7.0	7.7	8.0	7.4
SYN 96-1	6.3	7.7	8.0	7.0	7.3	7.3	8.0	7.7	7.4
SYN 96-3	6.7	6.7	7.3	8.0	7.7	7.0	7.7	7.7	7.3
PST-A2E	7.7	7.3	7.0	7.3	7.0	6.7	7.7	8.0	7.3
ABT-CRB-1	8.3	6.3	7.0	7.3	7.3	7.0	7.3	7.7	7.3
SYN 96-2	6.0	7.0	7.3	7.7	7.7	7.0	8.0	7.3	7.3
ISI AP-5	6.3	7.3	6.7	7.3	7.3	7.0	7.7	7.7	7.2
BAVARIA	8.3	6.3	6.3	7.3	.	6.7	8.0	7.0	7.1
PENN G-6	7.3	6.3	7.3	7.7	5.7	7.0	7.3	8.0	7.1
BENGAL (BAR AS 8FUS2)	7.0	7.7	7.7	7.0	5.3	7.0	7.3	7.3	7.0
BAR CB 8US3	7.0	7.0	6.7	7.0	6.0	8.0	7.0	7.3	7.0
CENTURY	7.0	7.0	7.0	7.3	6.7	7.0	7.0	7.0	7.0
SR 1119	6.3	7.0	7.0	8.0	6.0	7.0	7.0	7.0	6.9
PROVIDENCE	6.7	7.3	6.0	7.7	4.7	7.3	7.3	7.3	6.8
CRENSHAW	6.0	7.0	7.7	7.7	4.7	7.3	7.0	7.0	6.8
L-93	6.0	7.3	6.7	7.3	5.3	7.0	7.3	7.3	6.8
SRX 1EPAA	6.3	7.3	6.3	7.7	4.7	6.7	7.0	7.3	6.7
SRX 1NJH	6.0	6.0	6.7	7.7	6.0	6.3	7.0	7.7	6.7
BRIGHTON (SRX 1120)	6.3	6.7	6.3	7.3	5.0	7.0	7.7	7.0	6.7
BACKSPIN	6.7	6.7	6.7	7.3	4.3	7.0	7.0	7.3	6.6
PICK CB 13-94	6.0	7.0	6.0	7.3	4.0	7.0	7.3	7.7	6.5
PENNCROSS	5.3	6.3	5.3	7.7	3.0	6.7	7.0	7.3	6.1
PENNLINKS	6.3	6.3	5.3	7.3	2.3	6.7	6.3	7.0	6.0
LSD VALUE	1.4	1.0	1.0	0.9	1.5	0.8	0.8	0.7	0.4
C.V. (%)	12.8	9.2	8.8	7.9	14.6	7.5	6.3	5.5	9.2

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

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

TABLE 10.

SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1	IL1	MI1	PA1	TX1	UT1	VA1	WA3	WI1	WI2	MEAN
PENN A-1	8.3	5.7	6.0	7.3	7.3	4.3	6.0	7.7	6.7	6.7	6.6
PENN A-4	9.0	6.0	6.3	6.7	7.0	3.7	6.0	7.7	6.3	6.3	6.5
SYN 96-1	7.7	4.0	6.3	8.3	7.0	4.0	6.3	8.0	6.7	6.7	6.5
SYN 96-3	6.7	5.0	6.0	7.7	7.0	4.3	6.0	8.0	7.0	7.0	6.5
PENN A-2	8.3	5.3	6.0	7.7	7.0	4.3	5.0	8.0	6.3	6.3	6.4
SRX 1NJH	7.7	5.3	6.3	7.0	7.0	4.3	6.0	7.3	6.7	6.7	6.4
SYN 96-2	7.0	6.3	6.0	8.0	7.0	3.7	6.0	7.0	6.7	6.7	6.4
VESPER (PICK MVB)	6.7	3.3	6.3	8.7	6.3	2.0	6.3	8.3	8.0	8.0	6.4
PENN G-1	8.0	6.3	6.0	7.3	7.0	4.0	5.3	7.7	6.0	6.0	6.4
SR 7200	6.7	4.0	6.0	8.0	6.3	2.7	6.0	9.0	7.3	7.3	6.3
PST-A2E	7.7	5.3	6.0	6.0	7.3	3.7	6.0	8.0	6.3	6.3	6.3
CENTURY	7.3	5.3	6.0	7.3	6.7	4.7	5.0	7.7	6.3	6.3	6.3
PENN G-6	7.7	5.3	6.0	6.7	7.0	4.0	6.3	7.3	6.0	6.0	6.2
IMPERIAL	8.0	6.0	6.0	7.0	7.0	3.7	5.7	7.0	6.0	6.0	6.2
ISI AP-5	8.0	6.0	6.0	6.7	6.7	4.0	4.7	6.3	6.3	6.3	6.1
PICK CB 13-94	7.3	5.0	6.0	6.3	7.0	3.3	6.0	6.3	6.3	6.3	6.0
L-93	7.7	6.7	6.0	6.0	7.0	3.7	5.3	5.7	6.0	6.0	6.0
BENGAL (BAR AS 8FUS2)	8.0	6.0	6.0	6.0	7.0	2.7	4.7	6.3	6.7	6.7	6.0
ABT-CRB-1	6.7	4.0	6.0	6.0	7.0	4.3	5.3	7.3	6.3	6.3	5.9
PROVIDENCE	7.7	6.0	6.0	5.7	6.3	4.0	4.7	6.3	6.0	6.0	5.9
BAR CB 8US3	7.3	5.7	6.0	5.3	6.7	3.3	5.0	7.0	6.0	6.0	5.8
BACKSPIN	7.7	4.3	6.0	6.3	6.7	2.7	5.7	7.0	6.0	6.0	5.8
SR 1119	7.7	5.3	6.0	6.0	6.7	3.3	4.3	6.7	6.0	6.0	5.8
BRIGHTON (SRX 1120)	7.7	5.7	6.0	5.0	6.3	3.0	4.3	6.7	6.3	6.3	5.7
SRX 1BPAA	8.0	4.0	6.0	5.3	6.7	3.3	4.0	6.7	6.0	6.0	5.6
CRENSHAW	7.7	5.0	6.0	5.3	6.0	2.3	4.7	6.0	6.0	6.0	5.5
BAVARIA	7.0	3.3	6.0	.	6.7	2.3	3.3	5.7	6.7	6.7	5.3
PENNLINKS	6.7	4.7	6.0	4.3	6.0	2.3	3.7	4.7	6.0	6.0	5.0
PENNCROSS	7.0	5.0	6.0	4.7	6.0	2.7	4.0	4.0	5.3	5.3	5.0
LSD VALUE	1.0	1.5	0.3	1.2	0.7	1.2	1.2	1.2	0.8	0.8	0.3
C.V. (%)	8.5	18.1	3.5	11.7	6.4	21.6	14.8	10.4	7.9	7.9	10.8

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 11.

SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1	IL1	MI1	NJ1	TX1	VA1	WA3	WI1	WI2	MEAN
VESPER (PICK MVB)	7.0	8.3	7.3	9.0	6.3	6.3	9.0	8.0	8.0	7.7
SR 7200	6.3	8.0	7.3	9.0	6.7	7.0	9.0	8.0	8.0	7.7
PST-A2E	8.3	7.0	8.0	6.3	7.0	7.0	8.0	7.0	7.0	7.3
PENN A-4	9.0	6.7	8.0	7.3	6.7	7.3	7.0	6.7	6.7	7.3
SYN 96-1	8.7	6.7	8.0	6.3	7.0	6.3	7.7	7.0	7.0	7.2
ABT-CRB-1	7.0	6.3	8.0	7.3	8.0	7.3	7.0	6.7	6.7	7.1
SYN 96-2	7.5	6.7	8.0	7.0	6.7	7.7	7.3	6.7	6.7	7.1
PENN A-1	7.7	6.0	8.0	8.3	7.0	6.7	7.0	6.7	6.7	7.1
SYN 96-3	7.0	6.7	7.7	8.0	6.7	6.3	7.0	7.3	7.3	7.1
PENN A-2	8.0	6.3	8.0	7.0	6.7	7.3	7.3	6.3	6.3	7.0
BAR CB 8US3	7.3	7.0	8.0	5.7	6.7	6.3	7.3	7.0	7.0	6.9
PENN G-6	7.3	6.3	8.0	6.0	7.0	7.3	6.3	7.0	7.0	6.9
ISI AP-5	7.7	6.7	8.0	6.3	7.0	5.7	6.7	7.0	7.0	6.9
PENN G-1	8.3	6.7	8.0	6.3	6.7	7.0	7.0	6.0	6.0	6.9
IMPERIAL	8.0	6.3	8.0	6.0	7.0	7.0	6.3	6.7	6.7	6.9
CENTURY	7.0	6.0	8.0	5.3	7.0	7.0	7.0	6.7	6.7	6.7
SRX 1NJH	6.7	6.3	8.0	5.7	7.0	7.7	6.3	6.3	6.3	6.7
BENGAL (BAR AS 8FUS2)	7.0	6.7	8.0	5.7	7.3	6.0	5.7	6.7	6.7	6.6
L-93	7.0	6.3	8.0	6.0	7.7	6.7	5.0	6.3	6.3	6.6
CRENSHAW	7.7	6.0	8.0	3.7	6.7	8.0	6.0	6.7	6.7	6.6
BACKSPIN	7.3	6.7	7.3	4.3	7.0	7.0	5.7	6.7	6.7	6.5
BRIGHTON (SRX 1120)	7.0	5.7	8.0	5.3	7.0	6.3	6.3	6.3	6.3	6.5
BAVARIA	6.7	6.3	7.7	.	7.0	5.3	4.0	7.3	7.3	6.5
PICK CB 13-94	7.7	6.3	8.0	3.3	7.0	7.0	6.0	6.3	6.3	6.4
PROVIDENCE	7.3	6.0	8.0	5.0	6.3	5.3	6.0	6.3	6.3	6.3
SR 1119	7.3	5.7	7.7	5.7	7.0	5.3	5.7	6.0	6.0	6.3
SRX 1BPAA	7.3	5.7	8.0	3.7	7.0	6.0	6.3	6.0	6.0	6.2
PENNLINKS	6.7	5.0	7.3	2.0	6.7	5.7	4.0	6.0	6.0	5.5
PENNCROSS	7.0	4.3	7.7	2.0	7.0	5.0	3.7	6.0	6.0	5.4
LSD VALUE	1.3	1.2	0.6	1.5	0.8	1.6	1.2	0.8	0.8	0.4
C.V. (%)	10.7	12.0	5.1	15.7	6.8	14.7	11.4	7.2	7.2	10.3

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 12.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1	IL1	MI1	NE1	PA1	TX1	UT1	VA1	WA3	WI1	WI2	MEAN
PENN G-1	8.3	6.3	6.0	9.0	8.0	7.0	6.3	7.7	7.0	7.0	7.0	7.2
SYN 96-1	8.3	7.0	6.0	9.0	8.3	7.3	5.7	6.7	8.0	6.3	6.3	7.2
SYN 96-2	7.7	6.7	6.0	8.3	8.3	8.0	5.7	7.7	7.0	6.7	6.7	7.2
PENN A-1	8.0	7.0	6.0	9.0	7.7	7.0	5.7	7.7	7.3	6.7	6.7	7.2
PENN A-4	9.0	6.0	6.0	9.0	7.3	7.0	6.0	6.7	6.7	7.3	7.3	7.1
PENN A-2	8.7	6.0	6.0	9.0	7.3	7.0	6.0	7.3	6.3	6.7	6.7	7.0
SYN 96-3	7.7	6.3	6.0	8.0	8.0	7.0	5.3	7.3	8.0	6.7	6.7	7.0
PST-A2E	8.0	6.7	6.0	9.0	7.3	7.0	5.3	7.3	6.7	6.7	6.7	7.0
VESPER (PICK MVB)	6.7	4.0	6.0	.	9.0	6.3	6.3	7.0	9.0	7.7	7.7	7.0
BENGAL (BAR AS 8FUS2)	8.3	6.7	6.0	9.0	7.7	6.7	5.3	7.0	5.3	6.7	6.7	6.8
PENN G-6	7.3	6.7	6.0	9.0	7.7	7.0	5.0	8.0	6.0	6.3	6.3	6.8
ABT-CRB-1	7.0	7.3	6.0	8.3	7.3	7.0	5.7	7.0	6.7	6.3	6.3	6.8
ISI AP-5	7.7	6.7	6.0	9.0	7.0	6.7	5.0	7.0	6.0	6.7	6.7	6.8
L-93	7.7	6.3	6.3	8.7	6.7	7.3	5.0	8.0	5.0	6.7	6.7	6.8
SRX 1NJH	7.0	6.7	6.0	9.0	6.0	7.0	5.3	7.0	6.3	6.7	6.7	6.7
IMPERIAL	7.7	6.0	6.0	9.0	6.3	6.7	5.0	7.0	6.7	6.7	6.7	6.7
BAR CB 8US3	8.0	6.3	6.0	9.0	6.7	6.7	5.3	7.3	6.0	6.0	6.0	6.7
PICK CB 13-94	7.3	6.0	6.0	9.0	7.3	7.0	5.3	7.3	5.3	6.3	6.3	6.7
CRENSHAW	7.3	6.7	6.0	9.0	6.7	7.3	5.0	7.3	5.7	6.0	6.0	6.6
BACKSPIN	7.7	5.7	6.0	8.7	6.7	6.7	6.0	6.7	6.3	6.0	6.0	6.6
CENTURY	7.3	6.0	6.0	9.0	6.7	6.7	5.3	7.0	5.7	6.3	6.3	6.6
PROVIDENCE	7.7	5.7	6.0	8.7	7.0	6.7	5.3	6.7	6.0	6.3	6.3	6.6
SR 1119	8.0	5.7	6.0	9.0	6.7	6.7	5.3	6.3	5.3	6.3	6.3	6.5
BRIGHTON (SRX 1120)	7.0	5.7	6.0	8.7	6.3	6.3	5.3	7.0	6.0	6.3	6.3	6.5
SRX 1BPAA	7.3	5.7	6.0	9.0	5.3	6.3	5.0	7.0	6.0	6.0	6.0	6.3
SR 7200	6.7	4.7	6.0	.	.	7.0	4.3	5.7	9.0	6.7	6.7	6.3
PENNLINKS	7.7	5.3	6.0	8.7	5.0	6.3	3.3	7.0	4.0	6.3	6.3	6.0
PENNCROSS	6.7	4.7	6.0	8.0	5.0	6.3	3.7	6.3	3.3	6.0	6.0	5.6
BAVARIA	6.7	4.7	6.0	.	.	6.7	4.7	5.7	4.0	6.0	6.0	5.6
LSD VALUE	1.3	1.5	0.2	0.5	1.0	0.8	1.7	1.4	1.3	1.0	1.0	0.3
C.V. (%)	10.7	15.1	1.8	3.4	9.2	7.0	19.5	12.3	12.9	9.6	9.6	10.6

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

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

TABLE 13. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AZ1	MI1	MO1	OK1	MEAN
L-93	99.0	91.7	96.3	98.0	96.3
PENN G-1	98.3	90.0	97.7	98.0	96.0
PENNLINKS	98.0	91.7	96.3	97.3	95.8
BAR CB 8US3	98.7	88.3	96.0	97.3	95.1
CRENSHAW	98.3	88.3	97.0	95.3	94.8
PST-A2E	97.3	91.7	91.7	98.0	94.7
PENNCROSS	98.0	86.7	96.3	97.0	94.5
PROVIDENCE	98.3	90.0	92.3	97.3	94.5
PICK CB 13-94	99.0	91.7	88.7	97.7	94.3
BRIGHTON (SRX 1120)	98.0	88.3	92.7	98.0	94.3
BENGAL (BAR AS 8FUS2)	98.7	88.3	91.3	98.0	94.1
PENN G-6	98.0	88.3	91.3	98.0	93.9
SR 1119	98.7	90.0	88.7	98.0	93.8
BACKSPIN	98.0	86.7	91.3	97.7	93.4
ISI AP-5	98.7	91.7	85.0	98.0	93.3
PENN A-2	97.7	88.3	88.7	98.0	93.2
SYN 96-3	93.3	90.0	88.3	98.0	92.4
SYN 96-1	97.3	94.7	79.0	98.0	92.3
PENN A-4	99.0	91.7	80.0	98.0	92.2
SRX 1BPAA	98.0	90.0	81.3	97.7	91.8
CENTURY	94.3	91.3	82.7	96.7	91.3
PENN A-1	97.7	88.3	79.7	98.0	90.9
SRX 1NJH	98.7	93.3	73.0	98.0	90.8
IMPERIAL	97.3	91.7	70.0	98.0	89.3
VESPER (PICK MB)	96.0	93.0	95.3	72.3	89.2
ABT-CRB-1	89.3	90.0	70.0	98.0	86.8
SR 7200	93.3	90.0	96.0	65.0	86.1
SYN 96-2	90.3	90.0	58.3	97.3	84.0
BAVARIA	94.0	88.3	90.0	4.3	69.2
LSD VALUE	5.6	8.3	23.4	18.1	7.8
C.V. (%)	3.6	5.7	16.7	12.2	10.6

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

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

TABLE 14. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AZ1	MI1	MO1	MEAN
L-93	99.0	88.3	98.3	95.2
PENN G-1	98.0	88.3	98.7	95.0
BAR CB 8US3	98.3	88.3	97.7	94.8
PENNLINKS	97.7	88.3	98.3	94.8
PST-A2E	97.0	91.7	95.0	94.6
PENNCROSS	97.7	88.3	97.3	94.4
PROVIDENCE	98.0	88.3	94.3	93.6
PENN G-6	97.3	90.0	93.0	93.4
BACKSPIN	97.7	88.3	93.0	93.0
SR 7200	92.0	88.3	98.7	93.0
VESPER (PICK MVB)	94.0	88.3	96.3	92.9
PICK CB 13-94	99.0	88.3	90.7	92.7
SYN 96-3	92.0	93.0	93.0	92.7
SR 1119	98.7	90.0	89.0	92.6
BENGAL (BAR AS 8FUS2)	98.7	86.7	91.3	92.2
BRIGHTON (SRX 1120)	97.3	86.7	92.7	92.2
CRENSHAW	98.3	83.3	94.7	92.1
PENN A-2	97.0	90.0	88.0	91.7
PENN A-4	99.0	88.3	86.0	91.1
ISI AP-5	98.7	88.3	85.0	90.7
SRX 1BPAA	97.3	90.0	83.0	90.1
BAVARIA	92.7	83.3	91.7	89.2
SYN 96-1	96.7	90.0	81.0	89.2
PENN A-1	97.0	86.7	83.0	88.9
CENTURY	93.7	88.3	82.7	88.2
SRX 1NJH	98.3	83.3	74.7	85.4
IMPERIAL	97.0	88.3	70.0	85.1
ABT-CRB-1	87.3	88.3	73.3	83.0
SYN 96-2	86.0	90.0	60.0	78.7
LSD VALUE	7.3	8.0	23.5	8.6
C.V. (%)	4.7	5.6	16.5	10.2

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

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

TABLE 15. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AZ1	MI1	MO1	OK1	MEAN
PENN G-1	98.7	91.7	94.7	97.3	95.6
L-93	99.0	90.0	94.3	97.0	95.1
PST-A2E	98.7	90.0	93.3	96.7	94.7
SYN 96-3	98.0	91.7	91.3	96.7	94.4
PENN G-6	98.7	88.3	93.0	97.0	94.3
PROVIDENCE	98.7	88.3	92.7	96.0	93.9
BAR CB 8US3	99.0	86.7	92.7	96.3	93.7
PENNCROSS	98.7	83.3	96.3	96.3	93.7
BRIGHTON (SRX 1120)	99.0	88.3	88.3	97.0	93.2
PENNLINKS	98.7	85.0	91.3	97.0	93.0
BENGAL (BAR AS 8FUS2)	99.0	88.3	88.3	96.3	93.0
BACKSPIN	98.7	86.7	90.0	96.3	92.9
SR 1119	99.0	90.0	85.0	96.7	92.7
PICK CB 13-94	99.0	88.3	86.7	96.0	92.5
CRENSHAW	99.0	85.0	91.7	93.7	92.3
PENN A-2	98.7	89.7	83.3	97.3	92.3
ISI AP-5	99.0	89.7	83.3	96.7	92.2
PENN A-4	99.0	88.3	83.3	97.0	91.9
PENN A-1	98.7	86.7	84.7	97.3	91.8
SRX 1BPAA	98.7	90.0	78.3	96.3	90.8
SYN 96-1	98.7	90.0	75.0	96.7	90.1
CENTURY	98.3	86.7	80.7	93.0	89.7
ABT-CRB-1	98.0	88.3	73.3	97.3	89.3
SRX 1NJH	99.0	85.0	71.3	97.0	88.1
SR 7200	98.0	91.7	96.0	65.0	87.7
VESPER (PICK MVB)	98.0	88.3	93.3	70.3	87.5
IMPERIAL	98.7	86.7	66.7	96.0	87.0
SYN 96-2	95.0	90.0	56.7	93.7	83.8
BAVARIA	98.7	85.0	88.3	2.7	68.7
LSD VALUE	1.9	8.4	24.4	17.8	7.9
C.V. (%)	1.2	5.9	17.7	12.2	10.7

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 16. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1	OK1	TX1	MEAN
PENN A-2	7.3	5.7	7.3	6.8
BAR CB 8US3	7.7	4.7	7.3	6.6
PST-A2E	6.7	5.0	7.3	6.3
SRX 1BPAA	7.3	4.0	7.7	6.3
PENN A-4	6.7	4.7	7.3	6.2
SRX 1NJH	6.7	4.3	7.7	6.2
PENN G-1	7.0	4.3	7.3	6.2
BENGAL (BAR AS 8FUS2)	6.0	4.3	8.0	6.1
CRENSHAW	7.0	4.0	7.3	6.1
ISI AP-5	6.7	4.3	7.3	6.1
PENN A-1	6.3	5.0	7.0	6.1
PICK CB 13-94	7.3	3.7	7.3	6.1
ABT-CRB-1	6.7	4.3	7.0	6.0
L-93	6.7	4.3	7.0	6.0
SR 1119	7.0	4.0	7.0	6.0
SYN 96-2	7.0	4.0	7.0	6.0
BAVARIA	6.3	4.3	7.0	5.9
IMPERIAL	6.0	4.3	7.3	5.9
PROVIDENCE	6.3	4.0	7.3	5.9
BRIGHTON (SRX 1120)	5.7	4.3	7.3	5.8
VESPER (PICK MVB)	6.0	4.3	7.0	5.8
BACKSPIN	6.0	4.0	7.0	5.7
PENN G-6	6.0	4.0	7.0	5.7
PENNCROSS	6.3	3.7	7.0	5.7
PENNLINKS	6.3	3.7	7.0	5.7
SR 7200	6.0	4.0	7.0	5.7
SYN 96-1	6.3	3.7	7.0	5.7
CENTURY	5.3	4.0	7.3	5.6
SYN 96-3	6.0	3.7	7.0	5.6
LSD VALUE	0.9	0.8	0.7	0.5
C.V. (%)	8.6	12.4	6.1	8.5

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

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

TABLE 17. WINTER KILL RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

WINTER KILL RATINGS 1-9; 9=LEAST KILL 2/

NAME	KS1
L-93	7.0
SRX 1NJH	7.0
CRENSHAW	6.7
PENN G-6	6.3
PENNLINKS	6.3
CENTURY	6.0
PENNCROSS	6.0
SR 1119	6.0
SRX 1BPAA	6.0
BAR CB 8US3	5.7
BENGAL (BAR AS 8FUS2)	5.7
ISI AP-5	5.7
IMPERIAL	5.3
PENN G-1	5.3
PST-A2E	5.3
VESPER (PICK MVB)	5.3
BRIGHTON (SRX 1120)	5.0
SR 7200	5.0
SYN 96-3	5.0
BACKSPIN	4.7
PENN A-2	4.7
BAVARIA	4.3
PICK CB 13-94	4.3
SYN 96-1	4.0
SYN 96-2	4.0
PROVIDENCE	3.7
PENN A-4	3.3
PENN A-1	3.0
ABT-CRB-1	2.0
LSD VALUE	2.4
C.V. (%)	28.8

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. DROUGHT TOLERANCE (WILTING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	AZ1
BENGAL (BAR AS 8FUS2)	7.0
BACKSPIN	6.3
BAR CB 8US3	5.7
ISI AP-5	5.7
PENN A-4	5.7
SR 1119	5.3
BRIGHTON (SRX 1120)	5.0
PENN A-2	5.0
PENN G-1	5.0
PENN G-6	5.0
PST-A2E	5.0
ABT-CRB-1	4.7
PROVIDENCE	4.7
SYN 96-1	4.7
IMPERIAL	4.3
L-93	4.3
PENN A-1	4.3
CRENSHAW	4.0
PENNLINKS	4.0
SRX 1BPAA	4.0
SRX 1NJH	4.0
BAVARIA	3.7
CENTURY	3.7
PENNCROSS	3.7
PICK CB 13-94	3.7
SR 7200	3.7
SYN 96-3	3.7
VESPER (PICK MVB)	3.0
SYN 96-2	2.7
LSD VALUE	2.0
C.V. (%)	26.9

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 19. DROUGHT TOLERANCE (DORMANCY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/

NAME	ME1
VESPER (PICK MVB)	8.7
SR 7200	8.0
BAVARIA	7.7
ISI AP-5	7.3
PENN A-1	7.3
SR 1119	7.3
ABT-CRB-1	7.0
BACKSPIN	7.0
BRIGHTON (SRX 1120)	7.0
CENTURY	7.0
PENN A-4	7.0
PENN G-1	7.0
PENNCROSS	7.0
PENNLINKS	7.0
IMPERIAL	6.7
PROVIDENCE	6.7
CRENSHAW	6.3
L-93	6.3
PST-A2E	6.0
SYN 96-1	6.0
BAR CB 8US3	5.7
SRX 1BPAA	5.7
SYN 96-2	5.7
BENGAL (BAR AS 8FUS2)	5.3
PENN A-2	5.3
PENN G-6	5.3
PICK CB 13-94	5.3
SRX 1NJH	5.3
SYN 96-3	4.7
LSD VALUE	2.7
C.V. (%)	26.0

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

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

TABLE 20. DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	MO1	NJ1	OK1	PA1	TX1	MEAN
L-93	9.0	6.3	9.0	8.0	8.0	8.1
PST-A2E	8.7	6.7	9.0	7.7	7.3	7.9
PENN A-2	8.0	6.0	8.7	8.0	8.0	7.7
PENNCROSS	8.0	6.7	8.7	7.7	7.3	7.7
SR 7200	7.7	7.3	8.0	.	7.3	7.6
PENNLINKS	8.7	6.7	8.3	7.7	6.3	7.5
PENN A-1	7.0	6.3	8.3	8.0	7.7	7.5
ISI AP-5	7.3	6.0	8.3	7.7	7.0	7.3
BENGAL (BAR AS 8FUS2)	8.3	4.7	8.0	7.3	7.7	7.2
PENN G-1	8.3	5.3	8.3	7.7	6.3	7.2
VESPER (PICK MVB)	6.3	6.3	7.3	8.7	6.7	7.1
PENN G-6	7.3	4.3	8.7	7.3	7.3	7.0
SRX 1BPAA	7.7	4.0	8.7	7.3	7.3	7.0
BRIGHTON (SRX 1120)	9.0	5.0	8.3	6.3	5.7	6.9
PENN A-4	7.7	5.7	8.0	7.0	5.7	6.8
PICK CB 13-94	7.3	4.0	8.3	7.0	7.3	6.8
SR 1119	9.0	3.7	8.7	5.7	6.3	6.7
SRX 1NJH	5.3	5.3	8.7	7.0	7.0	6.7
BAVARIA	8.3	4.0	7.7	.	6.3	6.6
ABT-CRB-1	6.3	3.0	8.7	6.7	8.0	6.5
IMPERIAL	7.0	4.0	7.3	6.7	6.0	6.2
SYN 96-3	8.7	2.3	7.3	6.0	5.7	6.0
BAR CB 8US3	8.3	3.0	6.0	7.0	5.3	5.9
SYN 96-1	8.0	1.0	7.3	6.0	6.7	5.8
PROVIDENCE	7.3	2.7	7.0	6.7	5.0	5.7
BACKSPIN	5.3	2.3	7.3	6.0	6.3	5.5
CENTURY	8.7	2.0	4.0	5.3	5.0	5.0
CRENSHAW	8.0	2.7	3.7	4.0	3.7	4.4
SYN 96-2	5.7	1.7	2.7	5.7	4.3	4.0
LSD VALUE	1.9	2.7	1.3	1.1	1.6	0.8
C.V. (%)	15.6	37.1	10.9	9.8	15.4	17.0

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

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

3/ DOLLAR SPOT CAUSED BY SCLEROTINIA HOMEOCARPA AT "NJ1", AT "PA1", AND AT "TX1".

TABLE 21. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	MI1	PA1	VA1	MEAN
SYN 96-3	8.0	7.3	6.3	7.2
SYN 96-2	7.7	7.0	6.7	7.1
ABT-CRB-1	7.7	7.0	5.3	6.7
SRX 1NJH	6.3	7.3	6.0	6.6
SYN 96-1	6.7	6.7	5.0	6.1
PENN G-6	6.7	5.7	5.7	6.0
PICK CB 13-94	5.7	6.7	5.3	5.9
SR 7200	1.7	8.0	8.0	5.9
BAVARIA	4.3	.	7.3	5.8
VESPER (PICK MVB)	3.0	8.0	6.0	5.7
BRIGHTON (SRX 1120)	6.7	5.3	4.7	5.6
PENN A-2	4.3	6.7	5.7	5.6
SRX 1BPAA	5.0	7.0	4.7	5.6
CENTURY	5.7	6.0	4.3	5.3
CRENSHAW	4.3	5.3	6.3	5.3
PENNLINKS	6.3	6.0	3.7	5.3
SR 1119	5.7	6.0	4.3	5.3
PENNCROSS	5.0	5.7	5.0	5.2
BACKSPIN	3.7	6.0	5.3	5.0
PENN A-1	3.0	6.7	5.0	4.9
BENGAL (BAR AS 8FUS2)	3.7	5.0	6.0	4.9
L-93	4.3	5.0	5.3	4.9
BAR CB 8US3	2.3	5.7	6.3	4.8
PST-A2E	2.7	7.0	4.7	4.8
PENN G-1	3.7	5.3	5.0	4.7
PENN A-4	3.7	5.7	4.3	4.6
IMPERIAL	3.0	6.0	3.7	4.2
PROVIDENCE	2.3	5.0	5.0	4.1
ISI AP-5	2.3	5.7	4.3	4.1
LSD VALUE	2.7	1.7	1.9	1.3
C.V. (%)	36.4	16.2	22.1	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.

3/ BROWN PATCH CAUSED BY RHIZOCTONIA SOLANI AT "PA1".

TABLE 22. PYTHIUM BLIGHT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1	MO1	MEAN
ISI AP-5	9.0	5.7	7.3
PENNLINKS	9.0	5.7	7.3
SYN 96-1	8.3	6.0	7.2
IMPERIAL	8.7	5.7	7.2
PENN A-4	9.0	5.3	7.2
PENNCROSS	8.7	5.7	7.2
SR 1119	9.0	5.3	7.2
PENN A-1	9.0	5.0	7.0
PENN G-1	9.0	5.0	7.0
BAVARIA	9.0	4.7	6.8
CRENSHAW	9.0	4.7	6.8
BAR CB 8US3	9.0	4.3	6.7
BRIGHTON (SRX 1120)	9.0	4.3	6.7
SYN 96-2	8.0	5.3	6.7
PICK CB 13-94	8.0	5.0	6.5
ABT-CRB-1	8.0	4.7	6.3
CENTURY	8.3	4.3	6.3
SRX 1BPAA	7.7	5.0	6.3
VESPER (PICK MVB)	9.0	3.3	6.2
PROVIDENCE	8.0	4.3	6.2
BACKSPIN	8.7	3.3	6.0
SR 7200	9.0	3.0	6.0
BENGAL (BAR AS 8FUS2)	7.7	4.0	5.8
PENN G-6	7.0	4.7	5.8
PENN A-2	6.3	5.0	5.7
L-93	8.3	2.7	5.5
SRX 1NJH	6.7	4.3	5.5
PST-A2E	6.7	4.0	5.3
SYN 96-3	6.0	4.7	5.3
LSD VALUE	2.9	1.6	1.6
C.V. (%)	21.6	21.7	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 23. CUTWORM RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

CUTWORM RATINGS 1-9; 9=NO DAMAGE 2/

NAME	ME1
PENN A-1	9.0
SR 7200	9.0
BAVARIA	8.7
VESPER (PICK MVB)	8.7
PENNLINKS	8.3
PENN G-6	8.0
PENNCROSS	8.0
SRX 1BPAA	8.0
SYN 96-3	8.0
ABT-CRB-1	7.7
PENN G-1	7.7
SRX 1NJH	7.7
BENGAL (BAR AS 8FUS2)	7.3
PENN A-4	7.3
ISI AP-5	7.0
L-93	7.0
PROVIDENCE	7.0
SR 1119	7.0
BACKSPIN	6.7
CENTURY	6.7
SYN 96-2	6.7
PENN A-2	6.3
IMPERIAL	6.0
BRIGHTON (SRX 1120)	5.7
SYN 96-1	5.7
CRENSHAW	5.3
BAR CB 8US3	5.0
PICK CB 13-94	5.0
PST-A2E	5.0
LSD VALUE	2.8
C.V. (%)	24.6

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 24. FALL COLOR (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1
PICK CB 13-94	7.3
SYN 96-2	7.3
BAR CB 8US3	7.0
CRENSHAW	7.0
ISI AP-5	7.0
L-93	7.0
SR 1119	7.0
SRX 1BPAA	7.0
SRX 1NJH	7.0
BAVARIA	6.7
PENN A-2	6.7
PENN A-4	6.7
ABT-CRB-1	6.3
IMPERIAL	6.3
PENN G-1	6.3
BENGAL (BAR AS 8FUS2)	6.0
PENN A-1	6.0
PROVIDENCE	6.0
PST-AZE	6.0
SR 7200	6.0
VESPER (PICK MVB)	6.0
BACKSPIN	5.7
PENNCROSS	5.7
CENTURY	5.3
PENN G-6	5.3
PENNLINKS	5.3
SYN 96-1	5.3
BRIGHTON (SRX 1120)	5.0
SYN 96-3	5.0
LSD VALUE	1.5
C.V. (%)	14.4

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 25. FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1
BAR CB 8US3	7.7
ISI AP-5	7.3
PENN A-2	7.3
CRENSHAW	7.0
PENN G-1	7.0
PENNCROSS	7.0
SRX 1BPAA	7.0
SRX 1NJH	7.0
BACKSPIN	6.7
BAVARIA	6.7
PENN A-1	6.7
PENN A-4	6.7
PICK CB 13-94	6.7
SR 1119	6.7
SR 7200	6.7
SYN 96-2	6.7
ABT-CRB-1	6.3
BENGAL (BAR AS 8FUS2)	6.3
IMPERIAL	6.3
L-93	6.3
PENN G-6	6.3
PENNLINKS	6.3
PROVIDENCE	6.3
PST-A2E	6.3
SYN 96-3	6.3
BRIGHTON (SRX 1120)	6.0
SYN 96-1	6.0
VESPER (PICK MVB)	6.0
CENTURY	5.3
LSD VALUE	1.3
C.V. (%)	12.3

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

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

TABLE 26. FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1
PENN A-2	7.3
PICK CB 13-94	7.3
SR 1119	7.3
SRX 1BPAA	7.3
ABT-CRB-1	7.0
BAR CB 8US3	7.0
PST-A2E	7.0
PENN G-1	6.7
PENNCROSS	6.7
CRENSHAW	6.3
PROVIDENCE	6.3
SRX 1NJH	6.3
SYN 96-1	6.3
SYN 96-2	6.3
SYN 96-3	6.3
BAVARIA	6.0
ISI AP-5	6.0
L-93	6.0
PENN A-4	6.0
PENN G-6	6.0
BACKSPIN	5.7
IMPERIAL	5.7
PENNLINKS	5.7
SR 7200	5.7
BENGAL (BAR AS 8FUS2)	5.3
BRIGHTON (SRX 1120)	5.3
CENTURY	5.3
VESPER (PICK MVB)	5.3
PENN A-1	5.0
LSD VALUE	1.5
C.V. (%)	14.5

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 27. FALL COLOR (DECEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	AZ1
BAR CB 8US3	8.0
SYN 96-1	7.7
PENN A-1	7.3
PENN A-2	7.3
PENN A-4	7.3
ABT-CRB-1	7.0
ISI AP-5	7.0
PENN G-1	7.0
PENNLINKS	7.0
SRX 1BPAA	7.0
SYN 96-2	7.0
BENGAL (BAR AS 8FUS2)	6.7
BRIGHTON (SRX 1120)	6.7
PICK CB 13-94	6.7
PST-A2E	6.7
SR 1119	6.7
CRENSHAW	6.3
L-93	6.3
PENN G-6	6.3
SYN 96-3	6.3
VESPER (PICK MVB)	6.3
BACKSPIN	6.0
PROVIDENCE	6.0
SRX 1NJH	6.0
BAVARIA	5.7
IMPERIAL	5.7
PENNCROSS	5.7
SR 7200	5.7
CENTURY	5.0
LSD VALUE	1.4
C.V. (%)	12.8

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

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

TABLE 28. POA ANNUA RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	WI1	WI2	MEAN
SYN 96-2	8.3	8.3	8.3
L-93	8.0	8.0	8.0
PENN A-4	8.0	8.0	8.0
PENN G-1	8.0	8.0	8.0
ISI AP-5	7.7	7.7	7.7
PENN A-1	7.7	7.7	7.7
PENN A-2	7.7	7.7	7.7
PENN G-6	7.7	7.7	7.7
SYN 96-1	7.7	7.7	7.7
SYN 96-3	7.7	7.7	7.7
ABT-CRB-1	7.3	7.3	7.3
BENGAL (BAR AS 8FUS2)	7.3	7.3	7.3
BRIGHTON (SRX 1120)	7.3	7.3	7.3
CRENSHAW	7.3	7.3	7.3
IMPERIAL	7.3	7.3	7.3
PICK CB 13-94	7.3	7.3	7.3
BAR CB 8US3	7.0	7.0	7.0
CENTURY	7.0	7.0	7.0
PROVIDENCE	7.0	7.0	7.0
PST-A2E	7.0	7.0	7.0
SR 1119	7.0	7.0	7.0
SRX 1BPAA	7.0	7.0	7.0
PENNCROSS	6.7	6.7	6.7
PENNLINKS	6.3	6.3	6.3
SRX 1NJH	6.3	6.3	6.3
VESPER (PICK MVB)	6.3	6.3	6.3
BACKSPIN	6.0	6.0	6.0
SR 7200	5.7	5.7	5.7
BAVARIA	4.3	4.3	4.3
LSD VALUE	1.5	1.5	1.0
C.V. (%)	12.9	12.9	12.9

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 29. PINK SNOW MOLD (MAY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2002 DATA

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

NAME	ME1
SYN 96-2	8.7
BACKSPIN	8.3
PENNCROSS	8.3
PICK CB 13-94	8.3
SYN 96-1	8.3
BAR CB 8US3	8.0
CRENSHAW	8.0
SR 7200	8.0
BENGAL (BAR AS 8FUS2)	7.3
CENTURY	7.3
BRIGHTON (SRX 1120)	7.0
PROVIDENCE	7.0
SR 1119	7.0
ABT-CRB-1	6.7
IMPERIAL	6.7
PENN G-1	6.7
BAVARIA	6.3
ISI AP-5	6.0
L-93	6.0
PENNLINKS	6.0
SYN 96-3	6.0
VESPER (PICK MVB)	6.0
PENN A-4	5.7
SRX 1BPAA	5.7
PENN A-2	5.3
PENN A-1	5.0
SRX 1NJH	5.0
PENN G-6	3.7
PST-A2E	3.7
LSD VALUE	2.8
C.V. (%)	26.4

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

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

3/ PINK SNOW MOLD CAUSED BY MICRODOCHIUM NIVALE.

TABLE 30. PERCENT DOLLAR SPOT (JULY) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN 2/ 3/
2002 DATA

NAME	KY1	KY2	MEAN
CENTURY	15.7	21.3	18.5
IMPERIAL	15.7	17.7	16.7
CRENSHAW	16.3	15.0	15.7
BACKSPIN	10.0	20.0	15.0
PICK CB 13-94	11.0	18.0	14.5
SYN 96-2	10.0	18.3	14.2
SRX 1NJH	5.0	22.3	13.7
SYN 96-1	10.0	17.0	13.5
BAR CB 8US3	13.3	13.0	13.2
ABT-CRB-1	6.3	20.0	13.2
PENN G-1	3.7	21.7	12.7
PENNCROSS	8.3	16.7	12.5
SYN 96-3	6.3	18.3	12.3
BRIGHTON (SRX 1120)	4.7	19.0	11.8
SR 1119	8.7	15.0	11.8
ISI AP-5	10.3	13.0	11.7
PENNLINKS	5.7	17.3	11.5
SR 7200	5.7	16.7	11.2
SRX 1BPAA	2.0	20.0	11.0
PENN A-1	1.3	20.0	10.7
PENN A-4	6.0	15.0	10.5
BENGAL (BAR AS 8FUS2)	5.7	14.0	9.8
VESPER (PICK MVB)	5.3	13.7	9.5
PST-A2E	2.3	15.7	9.0
PENN A-2	6.3	11.3	8.8
L-93	1.3	14.0	7.7
PROVIDENCE	3.0	12.3	7.7
BAVARIA	10.3	4.0	7.2
PENN G-6	2.3	10.7	6.5
LSD VALUE	8.0	9.7	6.3
C.V. (%)	68.1	37.3	47.1

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/ DOLLAR SPOT CAUSED BY SCLEROTINIA HOMEOCARPA.

TABLE 31. PERCENT BROWN PATCH (JULY) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN 2/
 2002 DATA

NAME	KY2
PENN A-4	31.7
BENGAL (BAR AS 8FUS2)	26.0
BAR CB 8US3	23.3
IMPERIAL	20.0
PST-A2E	19.0
PENNLINKS	18.7
ISI AP-5	15.0
SR 1119	15.0
PROVIDENCE	14.7
PENNCROSS	14.0
CENTURY	13.3
CRENSHAW	13.3
BAVARIA	12.7
SYN 96-1	11.7
PENN G-1	11.0
VESPER (PICK MVB)	10.0
PENN A-1	8.0
PENN G-6	8.0
BRIGHTON (SRX 1120)	7.3
L-93	7.3
PICK CB 13-94	6.7
SRX 1NJH	6.7
SYN 96-2	6.7
ABT-CRB-1	6.0
SR 7200	5.0
SRX 1BPAA	2.7
BACKSPIN	2.3
PENN A-2	1.7
SYN 96-3	0.0
LSD VALUE	16.5
C.V. (%)	88.2

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/ BROWN PATCH CAUSED BY RHIZOCTONIA SOLANI.

TABLE 32. DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
 AT ORONO, ME 1/
 2002 DATA

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

NAME	SEPTEMBER	OCTOBER	MEAN
PENNCROSS	9.0	3.7	6.3
BAVARIA	8.3	4.0	6.2
VESPER (PICK MVB)	9.0	3.3	6.2
PENN A-1	8.7	3.3	6.0
SR 7200	8.7	3.3	6.0
PENNLINKS	8.0	3.7	5.8
SR 1119	8.3	3.3	5.8
ABT-CRB-1	8.0	3.3	5.7
SRX 1BPAA	7.7	3.7	5.7
SYN 96-2	7.7	3.7	5.7
BACKSPIN	7.7	3.3	5.5
PENN A-4	8.0	3.0	5.5
PROVIDENCE	7.7	3.3	5.5
SRX 1NJH	8.0	3.0	5.5
BRIGHTON (SRX 1120)	8.0	2.7	5.3
CENTURY	7.0	3.7	5.3
ISI AP-5	7.3	3.3	5.3
PENN G-1	7.7	3.0	5.3
SYN 96-1	7.0	3.7	5.3
BENGAL (BAR AS 8FUS2)	6.7	3.3	5.0
IMPERIAL	7.3	2.7	5.0
PENN A-2	7.0	3.0	5.0
PICK CB 13-94	6.3	3.7	5.0
SYN 96-3	6.7	3.3	5.0
PENN G-6	7.7	2.0	4.8
PST-A2E	6.7	3.0	4.8
CRENSHAW	7.0	2.3	4.7
L-93	6.7	2.7	4.7
BAR CB 8US3	6.0	2.0	4.0
LSD VALUE	4.4	3.5	2.4
C.V. (%)	18.1	30.3	15.6

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 33. DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
AT EAST LANSING, MI 1/
2002 DATA

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

NAME	JULY	SEPTEMBER	MEAN
PENN A-1	8.0	7.7	7.8
PENN G-1	8.0	7.3	7.7
PST-A2E	8.0	7.3	7.7
PENN A-2	7.0	7.7	7.3
L-93	6.7	7.3	7.0
SRX 1NJH	7.7	6.0	6.8
PENN A-4	6.3	6.7	6.5
PENNLINKS	7.0	5.7	6.3
PICK CB 13-94	6.7	5.3	6.0
SYN 96-3	8.0	4.0	6.0
PENNCROSS	6.0	5.7	5.8
PENN G-6	5.3	6.0	5.7
SR 7200	4.7	6.0	5.3
VESPER (PICK MVB)	4.7	6.0	5.3
ABT-CRB-1	5.7	4.7	5.2
IMPERIAL	5.0	5.0	5.0
BENGAL (BAR AS 8FUS2)	3.7	6.0	4.8
ISI AP-5	4.7	4.7	4.7
SR 1119	4.7	4.7	4.7
BAR CB 8US3	5.3	3.3	4.3
SYN 96-2	4.3	4.0	4.2
BACKSPIN	4.7	3.3	4.0
SYN 96-1	4.0	4.0	4.0
BRIGHTON (SRX 1120)	3.7	4.0	3.8
SRX 1BPAA	3.7	4.0	3.8
BAVARIA	3.0	3.7	3.3
PROVIDENCE	3.0	3.3	3.2
CENTURY	3.0	2.3	2.7
CRENSHAW	3.3	2.0	2.7
LSD VALUE	5.1	1.8	2.6
C.V. (%)	41.0	22.3	27.8

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 34. DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
AT BLACKSBURG, VA 1/
2002 DATA

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

NAME	JULY	AUGUST	SEPTEMBER	MEAN
SR 7200	7.7	7.7	7.7	7.7
PENN A-1	8.3	7.0	6.3	7.2
SRX 1NJH	8.3	6.7	6.7	7.2
BAVARIA	8.3	6.7	6.3	7.1
PENN A-2	8.0	7.0	6.3	7.1
L-93	7.7	6.7	6.3	6.9
VESPER (PICK MVB)	8.3	6.3	6.0	6.9
PST-A2E	7.3	6.7	6.0	6.7
SRX 1BPAA	8.0	6.3	5.7	6.7
ABT-CRB-1	7.3	6.7	5.7	6.6
PENN G-1	7.7	6.0	5.7	6.4
PENNCROSS	8.0	6.0	5.3	6.4
PENN G-6	7.7	6.3	4.7	6.2
PICK CB 13-94	7.0	6.0	5.0	6.0
PENNLINKS	6.0	6.0	5.3	5.8
BRIGHTON (SRX 1120)	7.0	5.3	4.7	5.7
BENGAL (BAR AS 8FUS2)	7.0	5.0	4.7	5.6
PENN A-4	6.3	5.7	4.7	5.6
SYN 96-1	7.3	5.0	4.3	5.6
SYN 96-3	7.3	5.0	4.3	5.6
IMPERIAL	7.0	4.7	4.7	5.4
PROVIDENCE	6.3	5.0	5.0	5.4
BACKSPIN	6.7	5.0	4.3	5.3
ISI AP-5	6.3	5.0	4.3	5.2
SR 1119	6.0	5.3	4.0	5.1
SYN 96-2	7.0	4.0	3.7	4.9
BAR CB 8US3	6.7	4.0	3.7	4.8
CENTURY	6.3	4.0	3.7	4.7
CRENSHAW	6.3	4.0	3.7	4.7
LSD VALUE	3.1	1.6	1.6	1.4
C.V. (%)	15.5	16.2	18.4	13.1

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

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

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS
 IN THE 1998 NATIONAL BENTGRASS (PUTTING GREEN) TEST */
 2002 DATA

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

NAME	ALL LOCATIONS		STATISTICS FOR ALL LOCATIONS				
	MEAN 1/	RANK 2/	SUM OF RANKS 3/	RANK 4/	HIGHEST RANK 5/	LOWEST RANK 6/	MAXIMUM IN TOP 25% 7/
ABT-CRB-1	5.6	21	315	18	4	29	26.3
BACKSPIN	5.5	22	369	23	9	28	0.0
BAR CB 8US3	5.8	14	288	16	2	24	21.1
BAVARIA	3.8	29	511	29	19	29	0.0
BENGAL (BAR AS 8FUS2)	5.9	8	205	8	2	24	31.6
BRIGHTON (SRX 1120)	5.7	18	318	19	3	25	10.5
CENTURY	5.6	19	324	20	1	27	5.3
CRENSHAW	5.5	23	358	22	5	29	15.8
IMPERIAL	5.7	16	301	17	2	28	10.5
ISI AP-5	5.9	9	209	9	3	24	36.8
L-93	6.1	5	173	5	1	25	52.6
PENN A-1	6.3	1	139	1	1	26	68.4
PENN A-2	6.1	3	171	4	1	27	57.9
PENN A-4	6.1	4	167	3	1	28	52.6
PENN G-1	6.1	2	151	2	1	16	57.9
PENN G-6	6.0	7	199	6	2	22	31.6
PENNCROSS	5.0	27	418	27	1	28	5.3
PENNLINKS	5.2	25	395	25	3	28	10.5
PICK CB 13-94	5.7	17	282	12	7	26	5.3
PROVIDENCE	5.5	24	386	24	8	27	0.0
PST-A2E	6.0	6	202	7	2	27	36.8
SR 1119	5.7	15	285	14	2	22	15.8
SR 7200	4.8	28	419	28	2	29	15.8
SRX 1BPAA	5.6	20	334	21	5	23	10.5
SRX 1NJH	5.8	13	263	10	2	29	26.3
SYN 96-1	5.8	12	287	15	2	25	15.8
SYN 96-2	5.8	11	285	14	1	25	15.8
SYN 96-3	5.8	10	279	11	1	29	21.1
VESPER (PICK MVB)	5.1	26	400	26	1	29	15.8
LSD VALUE	0.2						
C.V. (%)	8.9						

*/ 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.