

## **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 American Sod Producers Association, one member from the United States Golf Association (USGA) Green Section, one member from the Turfgrass Breeders Association, an executive director and a national program coordinator. 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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LOCATIONS SUBMITTING DATA FOR 1996

<u>State</u>	<u>Location</u>	<u>Code</u>
Arizona	Tucson	AZ1
Iowa	Ames	IA1
Illinois	Urbana	IL1
Illinois	Carbondale	IL2
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
Mississippi	Mississippi State	MS1
New Jersey	North Brunswick	NJ1
Oklahoma	Stillwater	OK1
Pennsylvania	University Park	PA1
Quebec	Quebec	QE1
Rhode Island	Kingston	RI1
South Carolina	Florence	SC1
Texas	Dallas	TX1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup (Native Soil)	WA3
Washington	Puyallup (Sand)	WA4
Wisconsin	Madison (Native Soil)	WI1
Wisconsin	Madison (Sand)	WI2

1993 NATIONAL BENTGRASS TEST  
(Greens)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	18th Green	creeping	Zajac Performance Seeds/ Johnson Seeds, Ltd.
2	Regent	creeping	Barenbrug USA
3	BAR As 492	creeping	Barenbrug Holland
4	BAR Ws 42102	creeping	Barenbrug Holland
5	Trueline	creeping	Turf Merchants
6	Seaside	creeping	Standard entry
7	Cato	creeping	Pickseed West, Inc.
8	PRO/CUP	creeping	Forbes Seed & Grain, Inc.
9	Crenshaw	creeping	Loft's Seed, Inc.
10	Southshore	creeping	Loft's Seed, Inc.
11	Providence	creeping	Seed Research of OR, Inc.
12	SR 1020	creeping	Seed Research of OR, Inc.
13	Century (Syn 92-1)	creeping	E. F. Burlingham & Sons
14	Backspin (Syn 92-2)	creeping	Turf Merchants, Inc.
15	Imperial (Syn 92-5)	creeping	E. F. Burlingham & Sons
16	Penncross	creeping	Standard entry
17	Penn A-1 (A-1)	creeping	Tee-2-Green Corp.
18	Penn A-4 (A-4)	creeping	Tee-2-Green Corp.
19	Penn G-2 (G-2)	creeping	LESCO, Inc.
20	Penn G-6 (G-6)	creeping	Tee-2-Green Corp.
21	Pennlinks	creeping	Tee-2-Green Corp.
22	DG-P	creeping	ProSeeds Marketing
23	MSUEB	creeping	Mississippi State Univ.
24	Loft's L-93 (L-93)	creeping	Loft's Seed, Inc.
25	Lopez	creeping	Finelawn Research, Inc.
26	Tendenz	colonial	Finelawn Research, Inc.
27	ISI-Ap-89150	creeping	International Seeds, Inc.
28	Mariner (Syn-1-88)	creeping	Pickseed West, Inc.

TABLE A.

1996 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 1993 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
AZ1	SAND	7.6-8.5	0-60	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
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	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL2	SILTY CLAY LOAM	6.1-6.5	151-270	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	SILT LOAM AND SILT	6.6-7.0	151-270	241-375	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY1	SAND	7.1-7.5	0-60	241-375	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MA1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MI1	SAND	7.6-8.5	61-150	151-240	6.1-7.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MN1	SILTY CLAY LOAM	7.1-7.5	151-270	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MO1	SAND	6.6-7.0	151-270	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MS1	SAND	5.6-6.0	61-150	0-150	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SANDY LOAM	5.6-6.0	271-450	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
OK1	SAND	6.6-7.0	61-150	241-375	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
PA1	LOAMY SAND	6.1-6.5	61-150	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
RI1	SILT LOAM AND SILT	6.6-7.0	-	0-150	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
SC1	SANDY LOAM	6.1-6.5	-	-	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
TX1	LOAMY SAND	6.1-6.5	0-60	0-150	7.1-8.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
VA1	-	-	-	-	-	-	-	-
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SANDY LOAM	5.6-6.0	61-150	241-375	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA4	SAND	6.1-6.5	0-60	151-240	7.1-8.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WI1	SILT LOAM AND SILT	7.1-7.5	271-450	376-500	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WI2	SILT LOAM AND SILT	7.1-7.5	271-450	376-500	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE A. (CONT'D)

## FUNGICIDE USE IN 1996 (SUBMITTED TO NTEP)

LOCATION	FUNGICIDE	RATE (OZ/1000 SQ. FT.)	DATE(S) OF APPLICATION
KY1	CHOLOROTHALONIL	-	CURATIVE
NJ1	IPRODIONE	3	6/13, 7/23
	CHOLOROTHALONIL	6	7/1
MN1	CHOLOROTHALONIL	-	TWO APPLICATIONS
	MANCOZEB	-	ONE APPLICATION
OK1	CHOLOROTHALONIL	11	6/14, 7/3, 8/12
	CHOLOROTHALONIL	10	4/23, 7/23
	CHOLOROTHALONIL	8	5/10, 5/30, 8/27
	CHOLOROTHALONIL	6	6/21
	PROPAMOCARB	2	5/10
	PROPICONAZOLE	0.75	8/27
PA1	CHOLOROTHALONIL	4	JULY, AUG., SEPT. (TWICE)
	IPRODIONE	2	JULY, AUG., SEPT. (TWICE)
	TRIADIMEFON	0.1	JULY, AUG., SEPT. (TWICE)
TX1	CHOLOROTHALONIL	6	1/24, 3/18, 4/3, 4/23, 5/28, 6/3, 6/17, 7/15, 7/22, 8/14, 9/3, 9/17, 10/3, 10/22, 11/21, 12/3, 12/12
	MANCOZEB	8	5/13
	BENZAMIDE	4	5/6
	BENZAMIDE	3	11/21, 12/12
	BENZAMIDE	2	6/17

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 1996

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
AZ1	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
IL2				X	X	X	X	X			X		X		X
KS1					X	X	X	X	X				X		X
KY1			X	X	X	X	X	X	X	X			X	X	X
MA1				X	X	X	X	X	X	X			X	X	
MI1					X	X	X	X	X	X			X	X	X
MN1				X	X	X	X	X	X	X			X	X	X
MO1				X	X	X	X	X	X	X			X		X
MS1	X	X	X	X	X	X	X				X	X	X		X
NJ1				X	X	X	X	X	X	X		X	X		X
OK1				X	X	X	X	X	X	X			X	X	X
PA1					X	X	X	X	X	X			X	X	X
QE1				X	X	X	X	X	X	X	X	X	X		X
RI1				X	X	X	X	X	X	X	X		X	X	X
SC1	X	X	X	X	X	X	X	X	X	X	X	X			
TX1	X	X	X	X	X	X	X	X	X	X	X	X	X		X
VA1				X	X	X	X	X	X	X	X				
WA1				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	X
WA4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WI1					X	X	X	X	X				X		
WI2					X	X	X	X	X				X		



TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 1996

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	FUSARIUM PATCH	LEAF SPOT	DOLLAR SPOT	BROWN PATCH	PERCENT TYPHULA	PERCENT YELLOW PATCH	FROST TOLERANCE
AZ1	X	X	X				X								
IA1								X							
IL1			X												
IL2															
KS1															
KY1															
MA1															
MI1											X				
MN1	X	X	X	X	X	X		X			X				
MO1															
MS1					X	X									
NJ1											X	X	X		
OK1	X	X	X	X	X	X	X				X				
PA1	X		X											X	
QE1	X	X	X												X
RI1											X				
SC1															
TX1											X				
VA1											X				
WA1									X						
WA3	X	X	X						X						
WA4	X		X						X						
WI1										X					
WI2										X					

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 1996

LOCATION	COPPER SPOT	DOLLAR	WINTER	POA	DORMANCY	BLACK	THATCH	DOLLAR	DOLLAR	ROOT	ROOT	TILLER	TILLER
		SPOT	VERDURE	ANNUA	UNIFORMITY	TURFGRASS	ASHED	SPOT	SPOT	DEPTH	DEPTH	COUNTS	COUNTS
		APRIL	RATING	RATING	DECEMBER	ATAENIUS	DRY	JUNE	JULY	MARCH	JUNE	MARCH	JUNE
AZ1													
IA1													
IL1													
IL2													
KS1						X							
KY1													
MA1													
MI1													
MN1													
MO1													
MS1													
NJ1	X				X								
OK1													
PA1													
QE1													
RI1													
SC1													
TX1		X								X	X	X	X
VA1					X								
WA1													
WA3			X				X						
WA4			X				X						
WI1								X	X				
WI2													

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A GREEN AT TWENTY-FOUR LOCATIONS IN THE U.S. AND CANADA 1/  
1996 DATA

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

NAME	AZ1	IA1	IL1	IL2	KS1	KY1	MA1	MI1	MN1	MO1	MS1	NJ1	OK1	PA1	QE1	RI1	SC1	TX1	VA1	WA1	WA3	WA4	WI1	WI2	MEAN
* LOFTS L-93 (L-93)	7.5	5.8	5.7	6.4	6.3	7.9	7.1	7.2	5.8	7.5	6.0	7.3	8.0	8.4	7.6	7.0	4.7	6.6	6.3	7.0	5.6	5.4	5.8	6.5	6.6
* PENN A-1 (A-1)	7.2	6.0	5.4	6.3	5.7	8.2	5.7	6.6	6.3	7.7	5.8	6.5	7.8	8.4	7.7	6.2	5.9	6.7	6.0	7.1	5.9	5.6	5.7	6.1	6.5
* PENN A-4 (A-4)	7.8	5.5	5.5	6.2	5.3	7.9	5.7	6.8	5.9	7.2	5.6	6.3	7.9	7.9	7.6	6.6	5.8	6.8	6.2	7.5	5.5	5.7	6.3	6.6	6.5
* PENN G-2 (G-2)	7.1	5.6	6.1	5.3	5.7	7.5	6.4	7.0	6.3	7.9	5.1	4.5	6.4	8.1	7.6	6.2	5.6	6.3	6.4	7.4	5.5	5.4	6.0	6.4	6.3
* CATO	7.5	5.6	6.1	5.8	6.1	8.0	6.0	6.8	6.0	7.4	5.1	5.7	7.7	7.5	7.4	5.1	5.1	6.6	5.9	7.0	5.2	5.7	5.6	6.1	6.3
* PROVIDENCE	7.1	6.1	6.3	6.0	5.8	7.4	6.4	6.8	5.4	7.8	5.8	5.6	7.1	7.6	7.6	6.0	4.1	6.9	5.8	6.6	5.4	5.5	5.5	5.7	6.3
* PENN G-6 (G-6)	6.5	5.2	5.2	5.7	5.5	7.3	5.9	6.7	5.8	7.2	5.9	5.4	7.4	7.8	7.7	5.6	5.4	6.8	6.3	6.8	4.8	4.8	6.3	6.3	6.2
* SOUTHSORE	6.4	5.9	5.9	6.1	6.1	7.3	5.9	6.5	5.4	7.7	5.5	5.4	6.7	8.0	7.8	5.2	4.5	6.9	5.3	6.9	4.9	5.3	5.4	5.7	6.1
* CENTURY (SYN 92-1)	6.7	5.7	5.2	6.7	5.5	6.9	6.3	6.4	5.1	7.9	5.7	5.1	6.3	7.7	7.9	4.7	5.1	6.6	5.4	6.4	5.3	5.8	5.6	6.2	6.1
* IMPERIAL (SYN 92-5)	6.4	5.8	5.7	5.8	5.5	7.0	6.3	6.3	5.3	7.5	4.9	5.3	7.7	8.1	7.6	4.8	4.5	6.8	5.5	6.3	5.4	5.8	5.7	5.9	6.1
BAR WS 42102	6.2	5.4	5.9	5.6	6.1	7.1	6.4	6.8	5.4	7.2	5.7	5.3	7.1	7.1	7.7	4.4	3.9	6.7	5.6	7.0	4.4	4.5	5.9	6.0	6.0
* BACKSPIN (SYN 92-2)	6.6	5.5	5.9	6.2	5.7	6.9	6.0	6.2	5.1	7.5	5.5	4.5	6.7	6.9	7.6	4.4	4.8	6.6	5.1	6.3	5.3	5.2	5.6	6.2	5.9
* PENNLINKS	6.4	6.1	5.5	5.3	5.9	7.3	6.3	6.1	5.2	8.1	5.2	4.8	7.4	6.7	7.3	4.6	4.4	6.5	5.3	6.2	4.6	4.8	5.7	6.1	5.9
DG-P	6.1	5.6	5.4	5.3	5.9	7.4	6.0	6.3	4.7	7.1	5.3	5.3	7.5	6.7	7.7	5.0	4.1	6.7	5.2	6.2	5.0	.	5.7	5.5	5.9
* SR 1020	7.4	5.6	5.7	4.6	5.4	7.0	5.8	6.6	5.2	7.4	5.8	4.0	7.7	6.2	7.5	4.1	4.4	6.9	5.4	6.7	5.0	5.2	5.5	5.8	5.9
* CRENSHAW	6.6	5.6	5.3	5.6	5.6	7.0	5.7	6.6	4.6	7.8	5.1	3.8	7.2	7.3	7.7	4.2	5.2	6.6	5.2	6.5	4.4	4.6	5.6	6.0	5.8
ISI-AP-89150	6.9	5.6	4.9	5.3	5.7	7.2	5.5	6.3	5.3	7.8	5.3	4.9	6.7	6.8	7.6	4.8	3.7	6.9	5.1	6.4	4.4	5.2	5.3	5.8	5.8
* REGENT	6.7	5.9	5.2	4.9	6.1	7.1	5.9	6.0	5.0	7.9	5.6	5.4	7.1	6.3	7.0	4.7	3.8	6.8	5.0	6.3	4.3	4.4	5.4	5.7	5.8
* PRO/CUP	6.2	5.6	5.9	5.2	6.1	7.0	5.6	6.0	5.0	7.8	5.6	4.5	7.4	5.9	7.4	4.1	3.5	6.7	5.0	6.4	4.8	4.7	5.7	5.7	5.7
* TRUELINE	6.2	5.4	5.6	4.9	6.1	7.0	5.7	6.2	5.4	8.1	5.6	4.0	7.3	6.0	7.3	4.7	3.4	6.7	5.2	6.4	4.5	4.4	5.4	5.7	5.7
MSUEB	6.2	5.7	6.0	4.1	5.8	6.9	5.6	6.4	5.2	8.0	6.0	5.3	7.4	6.4	6.8	4.7	4.7	6.4	5.2	6.2	3.9	3.8	5.2	5.5	5.7
* LOPEZ	6.4	5.3	5.7	4.4	5.9	7.2	6.0	6.4	5.0	8.0	5.7	3.9	7.6	6.1	7.2	4.7	3.1	6.5	5.0	6.4	4.5	4.8	5.1	5.5	5.7
* MARINER (SYN-1-88)	5.8	5.4	6.1	4.6	5.3	6.8	5.8	5.9	4.8	8.0	5.3	3.0	6.6	6.2	6.7	3.7	3.9	6.7	5.0	5.5	4.3	4.4	5.3	5.7	5.4
* PENNCROSS	6.0	5.7	5.6	4.1	5.6	6.9	5.3	6.1	4.9	7.8	5.7	3.6	7.2	5.5	6.6	3.8	3.5	6.3	4.9	5.8	4.5	4.6	5.1	5.3	5.4
* 18TH GREEN	5.4	5.9	4.6	3.4	5.5	6.3	5.2	5.8	4.6	7.9	4.7	3.3	6.8	5.3	7.9	2.8	4.5	6.8	4.6	6.2	4.1	4.5	5.8	6.1	5.3
* SEASIDE	4.3	5.0	5.1	3.2	5.5	5.3	4.0	5.1	4.6	6.6	5.1	1.9	6.0	2.8	6.4	2.6	3.5	6.3	4.5	4.9	3.8	2.9	4.4	5.3	4.6
BAR AS 492	4.6	4.9	4.4	2.9	6.1	3.1	4.1	5.6	5.3	6.2	4.9	2.5	.	1.0	5.7	3.4	2.1	6.5	4.8	5.7	4.8	3.0	5.0	5.6	4.4
* TENDENZ	5.1	4.5	4.4	3.3	5.5	3.6	4.7	5.2	.	6.5	5.1	2.0	.	1.1	6.6	2.9	2.3	6.6	3.9	5.0	3.9	3.3	4.3	4.9	4.3
LSD VALUE	0.6	0.7	0.8	1.7	1.0	0.4	0.7	0.5	0.9	0.7	1.0	0.8	0.8	0.7	0.4	0.8	0.7	0.5	0.4	0.8	0.4	0.4	0.7	0.6	0.2
C.V. (%)	6.2	7.9	8.9	21.0	10.5	3.3	7.6	4.7	10.8	5.5	10.9	10.5	7.1	6.4	3.3	10.2	10.3	4.8	5.1	7.9	5.1	5.4	7.9	6.4	8.1

\* COMMERCIALY AVAILABLE IN THE USA IN 1997.

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 MEANS IN EACH COLUMN.

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN  
ON A GREEN AT TWENTY-FOUR LOCATIONS IN THE U.S. AND CANADA  
1996 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
LOFTS L-93 (L-93)	5.6	6.1	6.2	6.4	6.5	6.8	6.9	7.1	7.0	6.9	5.6	4.7	6.6
PENN A-1 (A-1)	5.3	5.9	6.5	6.5	6.3	6.6	6.9	6.8	6.9	6.9	5.8	5.0	6.5
PENN A-4 (A-4)	5.9	6.6	6.6	6.4	6.1	6.8	6.8	6.9	6.7	6.8	5.3	4.8	6.5
PENN G-2 (G-2)	5.3	5.8	6.3	6.0	6.2	6.5	6.6	6.6	6.6	6.8	5.3	5.0	6.3
CATO	4.8	5.9	6.3	6.2	6.0	6.6	6.9	6.8	6.6	6.5	4.9	4.3	6.3
PROVIDENCE	5.3	5.8	6.1	6.4	6.1	6.5	6.6	6.4	6.5	6.3	5.3	4.5	6.3
PENN G-6 (G-6)	4.7	5.4	6.4	6.2	5.9	6.3	6.6	6.4	6.3	6.5	5.1	4.7	6.2
SOUTHSHORE	4.9	5.8	6.0	6.2	6.1	6.4	6.5	6.2	6.2	6.2	5.0	4.4	6.1
CENTURY (SYN 92-1)	5.2	6.1	6.6	6.0	5.9	6.5	6.2	6.3	6.2	6.2	5.1	4.8	6.1
IMPERIAL (SYN 92-5)	5.0	5.4	6.0	5.8	5.9	6.4	6.2	6.4	6.3	6.3	5.1	4.8	6.1
BAR WS 42102	4.1	5.1	5.5	5.8	5.8	6.3	6.4	6.4	6.1	5.9	4.8	4.2	6.0
BACKSPIN (SYN 92-2)	4.6	5.7	5.9	5.7	5.7	6.3	6.3	6.4	6.1	5.9	5.1	4.5	5.9
PENNLINKS	4.8	5.2	5.6	5.7	5.8	6.1	6.1	6.0	6.3	6.1	4.9	4.4	5.9
DG-P	5.1	5.5	5.8	5.9	5.6	6.1	6.2	5.9	6.2	6.0	5.1	5.1	5.9
SR 1020	4.9	5.7	6.4	5.7	5.7	5.9	6.1	6.1	6.1	6.1	5.2	4.6	5.9
CRENSHAW	4.1	4.5	5.8	5.5	5.5	6.1	6.4	6.3	6.1	6.1	4.9	4.2	5.8
ISI-AP-89150	5.0	5.5	5.8	5.7	5.6	6.0	5.9	5.9	6.0	5.9	5.4	4.7	5.8
REGENT	4.7	5.3	5.4	5.4	5.6	6.0	6.0	5.9	6.0	5.9	5.1	4.6	5.8
PRO/CUP	4.4	4.9	5.4	5.8	5.7	6.0	6.1	5.8	5.9	5.8	4.7	4.3	5.7
TRUELINE	4.2	5.0	5.3	5.6	5.6	6.0	6.1	5.8	6.0	5.8	4.8	4.0	5.7
MSUEB	5.0	5.2	4.9	5.6	5.5	5.8	6.1	5.8	6.1	5.8	4.6	4.5	5.7
LOPEZ	4.4	4.8	5.5	5.6	5.5	6.0	6.0	6.0	5.9	5.9	4.4	4.2	5.7
MARINER (SYN-1-88)	5.0	4.8	5.2	5.2	5.2	5.6	5.7	5.7	5.7	5.5	4.7	4.4	5.4
PENNCROSS	4.5	5.0	5.0	5.3	5.3	5.6	5.8	5.5	5.7	5.5	4.7	4.3	5.4
18TH GREEN	3.8	4.7	5.5	5.1	5.3	5.7	5.9	5.7	5.4	5.1	3.9	3.8	5.3
SEASIDE	4.3	4.0	4.6	4.2	4.2	4.6	4.6	4.6	5.0	4.5	4.4	4.2	4.6
BAR AS 492	3.9	4.1	4.0	4.1	4.2	4.4	4.5	4.8	5.0	4.4	4.4	3.8	4.4
TENDENZ	3.8	3.9	4.4	4.4	4.3	4.5	4.4	4.3	4.5	4.2	4.1	3.8	4.3
LSD VALUE	1.0	0.9	0.9	0.6	0.5	0.4	0.4	0.5	0.5	0.5	0.9	1.1	0.4

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).

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN  
ON GREEN AT TWENTY-FOUR LOCATIONS IN THE U.S. AND CANADA 1/  
1996 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING 2/

NAME	AZ1	IA1	IL1	IL2	KS1	KY1	MA1	MI1	MN1	MO1	MS1	NJ1	OK1	PA1	QE1	RI1	SC1	TX1	VA1	WA1	WA3	WA4	WI1	WI2	MEAN	
LOFTS L-93 (L-93)	2.0	7.5	10.5	2.0	1.0	3.5	1.0	1.0	5.5	19.0	1.0	1.0	1.0	1.5	9.5	1.0	9.0	16.0	2.5	5.5	2.0	8.0	5.5	2.0	1	
PENN A-1 (A-1)	5.0	3.0	19.0	3.0	16.0	1.0	19.5	9.0	1.5	15.5	4.0	2.0	3.0	1.5	5.5	3.0	1.0	10.5	5.0	3.0	1.0	5.0	8.0	10.0	2	
PENN A-4 (A-4)	1.0	19.5	16.5	4.5	27.5	3.5	19.5	3.5	4.0	24.0	14.0	3.0	2.0	6.0	11.0	2.0	2.0	8.0	4.0	1.0	3.5	3.5	1.5	1.0	3	
PENN G-2 (G-2)	7.0	14.5	2.5	13.0	16.0	5.0	2.5	2.0	1.5	7.0	25.0	17.5	24.0	4.0	13.0	4.0	3.0	27.0	1.0	2.0	3.5	7.0	3.0	3.0	4	
CATO	3.0	17.0	2.5	8.0	3.0	2.0	9.0	5.0	3.0	20.5	21.5	4.0	4.0	10.0	17.0	8.0	6.0	19.0	6.0	4.0	9.0	3.5	13.0	7.0	5	
PROVIDENCE	6.0	1.5	1.0	7.0	12.5	6.0	2.5	3.5	7.5	12.0	6.0	5.0	16.0	9.0	13.0	5.0	16.0	2.0	7.0	10.0	6.0	6.0	16.5	20.5	6	
PENN G-6 (G-6)	13.0	25.0	22.0	10.0	24.0	9.0	12.5	7.0	5.5	22.0	3.0	7.0	12.0	7.0	4.0	6.0	4.0	6.0	2.5	8.0	14.5	13.0	1.5	4.0	7	
SOUTHSHORE	14.5	4.5	8.0	6.0	5.5	9.0	14.0	11.0	9.5	15.5	15.0	7.0	21.5	5.0	3.0	7.0	12.5	4.0	13.0	7.0	12.0	9.0	19.0	16.5	8	
CENTURY (SYN 92-1)	9.0	10.0	22.0	1.0	21.0	21.5	7.0	13.0	18.0	8.5	8.5	13.0	25.0	8.0	1.0	14.5	7.0	17.0	10.0	13.0	7.0	2.0	15.0	5.5	9	
IMPERIAL (SYN 92-5)	16.0	7.5	10.5	9.0	24.0	15.5	5.0	16.0	12.0	17.0	27.0	12.0	5.5	3.0	9.5	11.0	11.0	8.0	9.0	17.0	5.0	1.0	10.0	13.0	10	
BAR WS 42102	18.5	21.0	6.5	11.0	7.5	13.5	4.0	6.0	7.5	23.0	8.5	10.5	17.5	12.0	7.5	18.0	18.5	15.0	8.0	5.5	22.0	19.0	4.0	11.5	11	
BACKSPIN (SYN 92-2)	11.0	19.5	6.5	4.5	16.0	21.5	9.0	19.0	17.0	18.0	16.0	16.0	21.5	13.0	13.0	19.0	8.0	18.0	18.5	18.5	8.0	10.0	13.0	5.5	12	
PENNLINKS	17.0	1.5	16.5	15.0	11.0	9.0	6.0	21.0	14.5	2.0	20.0	15.0	10.0	16.0	19.0	17.0	14.5	24.0	12.0	21.5	16.0	15.0	7.0	9.0	13	
DG-P	22.0	14.5	18.0	15.0	9.5	7.0	11.0	16.0	24.0	25.0	19.0	9.0	8.0	15.0	7.5	9.0	17.0	12.5	16.0	20.0	10.5	.	10.0	23.5	14	
SR 1020	4.0	12.5	12.5	20.5	26.0	18.0	15.5	8.0	16.0	20.5	5.0	19.5	5.5	19.0	16.0	22.0	14.5	1.0	11.0	9.0	10.5	11.0	16.5	14.5	15	
CRENSHAW	12.0	17.0	20.0	12.0	18.5	18.0	17.5	10.0	26.0	12.0	21.5	22.0	15.0	11.0	5.5	20.0	5.0	20.0	16.0	11.0	20.0	17.5	13.0	11.5	16	
ISI-AP-89150	8.0	17.0	25.0	15.0	14.0	12.0	23.0	16.0	12.0	12.0	17.5	14.0	20.0	14.0	15.0	10.0	21.0	3.0	18.5	15.0	21.0	12.0	21.5	14.5	17	
REGENT	10.0	4.5	22.0	19.0	5.5	13.5	12.5	22.5	19.5	6.0	11.0	7.0	17.5	18.0	22.0	14.5	20.0	5.0	21.5	18.5	24.0	21.5	19.0	20.5	18	
PRO/CUP	18.5	12.5	9.0	17.0	3.0	15.5	21.5	22.5	19.5	12.0	12.0	17.5	10.0	23.0	18.0	21.0	23.0	14.0	21.5	13.0	13.0	16.0	10.0	16.5	19	
TRUELINE	20.5	22.0	15.0	18.0	3.0	18.0	17.5	18.0	9.5	1.0	13.0	19.5	13.0	22.0	20.0	14.5	25.0	10.5	14.0	13.0	17.5	21.5	19.0	18.5	20	
MSUEB	20.5	9.0	5.0	23.0	12.5	21.5	21.5	13.0	14.5	4.5	2.0	10.5	10.0	17.0	23.0	14.5	10.0	25.0	16.0	21.5	26.0	24.0	23.0	23.5	21	
LOPEZ	14.5	24.0	12.5	22.0	9.5	11.0	9.0	13.0	21.0	3.0	10.0	21.0	7.0	21.0	21.0	12.0	26.0	23.0	20.0	16.0	17.5	14.0	24.0	25.0	22	
MARINER (SYN-1-88)	24.0	23.0	4.0	20.5	27.5	24.0	15.5	24.0	23.0	4.5	17.5	25.0	23.0	20.0	24.0	24.0	18.5	12.5	23.0	26.0	23.0	23.0	21.5	18.5	23	
PENNCROSS	23.0	11.0	14.0	24.0	18.5	21.5	24.0	20.0	22.0	12.0	7.0	23.0	14.0	24.0	26.0	23.0	23.0	28.0	24.0	24.0	19.0	17.5	25.0	26.5	24	
18TH GREEN	25.0	6.0	26.0	25.0	24.0	25.0	25.0	25.0	27.0	8.5	28.0	24.0	19.0	25.0	2.0	27.0	12.5	8.0	26.0	23.0	25.0	20.0	5.5	8.0	25	
SEASIDE	28.0	26.0	24.0	27.0	21.0	26.0	28.0	28.0	25.0	26.0	23.5	28.0	26.0	26.0	27.0	28.0	23.0	26.0	27.0	28.0	28.0	28.0	27.0	27.0	26.5	26
BAR AS 492	27.0	27.0	28.0	28.0	7.5	28.0	27.0	26.0	12.0	28.0	26.0	26.0	.	28.0	28.0	25.0	28.0	22.0	25.0	25.0	14.5	26.0	26.0	22.0	27	
TENDENZ	26.0	28.0	27.0	26.0	21.0	27.0	26.0	27.0	.	27.0	23.5	27.0	.	27.0	25.0	26.0	27.0	21.0	28.0	27.0	27.0	25.0	28.0	28.0	28	

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 1.

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 4.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	IA1	IL1	IL2	KS1	KY1	MA1	MI1	MN1	MO1	MS1	NJ1	OK1	PA1	QE1	RI1	TX1	WA1	WA3	WA4	WI1	WI2	MEAN
PROVIDENCE	6.7	7.7	6.3	7.0	7.7	8.0	7.3	6.0	6.3	8.3	6.0	6.7	8.3	6.3	8.7	7.7	7.7	7.3	8.3	7.7	7.3	7.7	7.3
18TH GREEN	6.3	7.7	5.0	6.7	7.0	7.0	7.0	5.3	6.7	8.7	6.0	9.0	7.3	9.0	9.0	8.7	7.3	8.0	8.7	7.7	6.0	7.0	7.3
LOFTS L-93 (L-93)	7.7	7.0	5.7	3.7	7.0	9.0	7.0	6.0	6.3	7.0	7.0	8.0	8.0	6.3	8.3	7.3	7.3	7.3	8.0	8.0	7.3	8.0	7.2
CATO	7.0	7.3	6.0	5.7	7.7	8.0	6.7	6.0	7.0	8.3	5.7	7.0	7.0	6.0	9.0	7.7	7.3	7.3	8.0	7.7	7.3	7.7	7.2
CRENSHAW	7.3	7.3	6.0	6.7	7.7	6.7	6.3	5.7	7.0	7.3	5.0	6.3	7.7	6.7	9.0	7.0	7.3	7.0	8.0	7.3	7.7	8.0	7.0
PENN A-4 (A-4)	8.0	7.0	5.7	4.3	7.0	8.3	6.7	5.7	5.3	7.7	6.0	7.0	8.3	6.7	8.7	6.3	7.7	8.0	7.0	7.0	7.7	8.0	7.0
ISI-AP-89150	7.0	7.0	5.7	6.0	7.0	8.0	6.7	6.3	6.0	8.0	6.0	5.0	7.7	6.0	8.7	7.0	7.3	7.3	7.7	7.7	7.0	7.3	6.9
PENN A-1 (A-1)	6.3	7.7	5.3	5.0	7.3	7.3	6.0	5.7	6.7	6.3	6.7	6.7	7.3	6.0	8.7	7.0	7.3	7.7	8.0	7.0	7.7	8.0	6.9
SOUTHSHORE	6.0	7.3	5.3	6.0	7.0	7.0	5.7	5.7	6.3	7.7	6.0	5.3	7.0	5.3	9.0	7.0	7.7	7.7	7.3	7.3	7.0	8.0	6.8
DG-P	7.0	6.7	5.3	3.7	7.3	8.0	6.3	6.0	5.3	7.0	6.3	6.3	7.3	6.3	9.0	6.0	7.3	7.3	7.3	.	7.0	7.3	6.7
TRUELINE	6.0	6.3	5.3	6.3	7.3	8.0	6.3	5.7	5.7	8.0	6.3	5.0	6.7	6.0	9.0	5.0	7.7	7.3	7.3	6.7	7.3	7.0	6.7
PENN G-2 (G-2)	6.0	7.0	5.7	5.3	7.0	7.7	6.7	6.0	6.7	7.0	5.5	5.0	6.0	5.0	9.0	6.7	7.0	7.7	6.7	7.3	7.3	8.0	6.6
IMPERIAL (SYN 92-5)	6.0	7.3	5.3	5.0	7.0	7.0	6.0	5.7	5.7	8.0	5.3	5.7	7.3	6.0	9.0	6.3	7.7	6.7	6.7	7.0	7.0	7.3	6.6
REGENT	6.7	6.3	5.3	5.7	7.0	7.0	6.0	6.3	5.3	7.7	6.3	6.7	7.0	6.0	8.3	5.0	7.0	7.0	6.7	6.7	7.0	7.3	6.6
BAR WS 42102	5.7	7.0	6.0	7.0	7.0	7.7	6.0	6.3	5.7	6.7	5.3	4.3	7.0	5.0	8.7	5.7	7.0	7.7	7.3	7.0	7.0	7.0	6.5
SR 1020	6.7	7.0	5.0	5.0	7.0	7.3	6.0	5.7	5.7	7.0	6.0	5.0	6.3	5.7	8.7	5.7	7.7	7.3	7.0	6.7	7.7	7.7	6.5
CENTURY (SYN 92-1)	6.0	6.3	5.3	6.0	7.0	6.7	6.3	6.0	5.7	6.3	6.0	5.7	6.0	5.0	9.0	6.7	8.0	6.7	7.0	6.7	7.3	7.7	6.5
PENN G-6 (G-6)	6.7	6.0	5.0	3.3	7.0	7.3	6.3	6.0	6.0	7.0	5.7	5.3	6.7	4.7	9.0	7.0	7.3	7.0	7.0	6.7	7.7	7.7	6.5
PRO/CUP	6.0	6.7	5.3	5.7	7.0	7.0	6.0	6.0	6.0	7.3	5.7	5.0	6.7	6.0	8.7	6.0	6.3	7.0	7.3	6.3	7.0	7.3	6.5
PENNLINKS	6.0	7.3	5.7	3.7	7.0	7.7	6.3	6.3	5.7	7.3	5.7	3.7	6.7	4.7	9.0	5.0	7.7	7.3	6.7	6.0	7.0	7.3	6.3
PENNCROSS	7.0	7.0	5.7	3.0	7.0	7.0	6.0	5.3	5.0	8.0	6.0	4.0	6.7	5.3	9.0	5.3	7.3	7.0	7.0	7.0	6.7	7.0	6.3
LOPEZ	6.0	6.0	5.0	3.0	7.0	7.7	6.3	6.0	6.0	8.0	5.7	4.0	6.7	5.3	8.3	5.3	7.3	7.0	7.7	6.0	7.0	7.3	6.3
MSUEB	6.0	6.0	6.0	3.3	7.0	7.0	6.3	6.0	5.7	7.0	6.0	4.7	6.3	4.3	8.7	5.0	7.3	7.3	7.0	6.7	6.7	7.3	6.3
BACKSPIN (SYN 92-2)	6.0	6.7	5.0	4.7	7.0	6.7	6.0	6.0	5.7	6.7	5.3	3.7	5.7	4.7	9.0	5.7	6.7	6.7	7.0	5.7	7.0	7.7	6.1
MARINER (SYN-1-88)	5.3	6.0	5.3	4.0	7.0	6.7	5.7	5.3	6.3	6.3	5.3	3.0	6.3	4.7	8.7	5.0	7.0	6.7	6.0	5.7	7.0	7.3	5.9
BAR AS 492	5.7	6.3	4.0	6.7	7.0	6.0	5.3	5.0	5.7	6.3	4.0	3.0	.	5.0	5.0	3.3	7.0	6.7	6.0	6.0	7.3	7.0	5.6
TENDENZ	6.0	5.7	4.0	3.0	7.0	6.0	5.0	4.3	.	7.3	4.7	2.3	.	6.0	6.3	3.0	7.0	6.7	5.3	4.7	7.0	7.0	5.4
SEASIDE	5.3	6.0	5.0	3.0	7.0	4.7	4.7	5.7	6.3	6.7	5.3	1.0	3.0	3.0	7.3	3.0	7.7	5.7	5.3	4.7	6.7	7.3	5.2
LSD VALUE	0.6	1.3	0.8	4.0	0.4	0.9	1.0	1.0	1.0	1.3	1.1	1.2	1.2	0.8	0.9	0.7	1.0	0.9	0.9	0.8	0.7	0.8	0.3
C.V. (%)	5.9	12.3	9.5	50.3	3.8	8.0	10.0	10.5	10.5	10.8	11.6	15.0	11.2	8.7	6.5	6.9	8.6	7.8	7.5	7.6	5.9	6.4	12.0

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

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

TABLE 5.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	IA1	IL1	KY1	MA1	MI1	MN1	OK1	PA1	RI1	WA1	WA3	WA4	MEAN
IMPERIAL (SYN 92-5)	6.0	6.3	6.0	9.0	6.0	5.7	5.0	5.7	5.0	5.3	5.7	5.3	7.3	6.0
DG-P	7.0	6.3	7.3	7.7	7.0	5.7	5.0	5.3	5.0	4.0	6.7	5.0	.	6.0
BACKSPIN (SYN 92-2)	6.0	6.0	5.3	8.3	5.0	5.7	5.0	5.7	5.7	7.0	6.0	5.7	6.3	6.0
SOUTHSHORE	6.3	7.0	5.7	7.7	5.7	5.7	4.3	5.0	5.7	4.7	7.7	5.0	7.0	5.9
CATO	7.3	6.7	5.0	7.3	6.7	5.7	6.0	4.7	5.0	4.0	7.0	5.3	5.7	5.9
PENN A-4 (A-4)	8.0	6.0	5.7	7.0	5.7	6.0	5.3	5.3	5.3	4.0	6.0	5.7	6.0	5.8
PROVIDENCE	7.3	6.0	6.0	6.7	6.0	5.3	6.0	4.3	6.3	4.0	5.7	5.3	6.7	5.8
TENDENZ	6.3	7.3	5.0	7.3	8.0	4.7	.	.	3.0	5.0	7.0	3.3	7.0	5.8
LOFTS L-93 (L-93)	7.3	6.7	5.3	6.0	6.3	6.0	5.3	5.0	6.3	4.0	5.0	5.7	5.7	5.7
PENN A-1 (A-1)	6.7	6.7	5.3	7.7	6.0	6.0	5.0	4.7	5.3	4.7	6.0	5.0	5.3	5.7
PENN G-6 (G-6)	7.3	5.7	5.7	7.7	5.3	6.0	5.7	5.0	6.0	4.7	6.7	4.3	3.7	5.7
CENTURY (SYN 92-1)	6.3	6.0	5.0	8.7	5.3	6.0	4.3	5.3	5.0	4.0	5.7	6.0	6.0	5.7
ISI-AP-89150	7.3	7.0	5.7	7.3	6.7	5.7	6.0	5.0	5.0	4.0	6.7	3.3	4.0	5.7
MARINER (SYN-1-88)	5.7	6.7	5.7	7.3	8.0	5.3	5.0	4.7	4.0	4.0	7.7	4.3	4.7	5.6
PENNLINKS	6.0	6.7	5.7	7.0	7.3	5.3	5.3	5.0	4.7	4.0	6.0	4.3	5.3	5.6
PENN G-2 (G-2)	6.7	7.0	5.3	7.7	6.0	6.7	6.3	4.3	5.7	3.3	5.7	3.3	3.7	5.5
REGENT	6.0	6.0	6.3	6.3	7.7	5.3	5.3	4.7	4.3	5.0	5.7	3.3	5.7	5.5
SR 1020	6.7	5.7	5.3	8.0	6.0	5.3	5.0	4.7	3.7	4.3	6.0	5.3	5.3	5.5
MSUEB	6.3	6.3	5.0	7.0	7.7	5.7	5.3	4.3	4.3	4.0	7.0	4.3	3.3	5.4
TRUELINE	6.0	6.7	6.0	7.0	6.3	6.0	5.0	5.0	5.0	3.0	6.7	4.7	3.3	5.4
LOPEZ	6.3	5.7	5.7	7.3	6.7	6.0	5.3	4.7	4.7	4.0	6.0	4.0	4.0	5.4
PENNCROSS	7.0	6.0	5.3	6.7	7.0	5.3	5.7	4.3	4.3	3.3	6.0	4.3	4.7	5.4
PRO/CUP	6.3	6.3	5.7	6.3	6.3	5.7	5.3	4.7	4.3	3.3	7.0	3.0	3.3	5.2
CRENSHAW	7.0	6.3	5.7	7.0	7.0	5.7	3.7	4.3	5.0	3.7	6.3	2.0	4.0	5.2
SEASIDE	5.0	5.7	6.3	7.0	8.3	4.7	5.7	3.3	2.0	5.3	6.3	4.7	2.7	5.2
BAR AS 492	5.3	5.7	5.3	8.3	7.7	5.0	6.0	.	3.7	3.3	5.3	4.7	1.3	5.1
18TH GREEN	6.0	6.7	5.0	5.0	6.7	5.3	3.3	3.3	2.3	2.3	4.0	4.0	5.3	4.6
BAR WS 42102	5.0	6.3	4.7	7.0	5.7	5.3	5.0	3.7	4.3	1.7	4.7	1.3	1.7	4.3
LSD VALUE	0.9	1.3	1.1	1.2	1.3	0.9	1.6	1.2	1.0	1.3	2.0	1.5	1.2	0.4
C.V. (%)	8.9	12.4	12.5	10.0	12.8	9.9	19.6	15.5	13.2	19.9	20.6	21.4	15.9	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 MEANS IN EACH COLUMN.

TABLE 6.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

NAME	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/																		MEAN	
	AZ1	IA1	IL1	IL2	KS1	KY1	MI1	MN1	MO1	MS1	NJ1	OK1	PA1	QE1	RI1	TX1	WA1	WA3		WA4
PENN G-2 (G-2)	7.7	7.0	7.3	4.3	8.7	8.7	6.7	6.7	8.0	6.0	8.7	9.0	8.7	8.3	8.0	8.7	8.0	9.0	9.0	7.8
PENN A-1 (A-1)	7.7	8.0	6.3	6.3	8.3	8.3	7.0	6.7	7.7	6.7	8.7	9.0	8.3	7.7	7.3	8.3	8.0	9.0	9.0	7.8
CENTURY (SYN 92-1)	7.3	8.0	7.0	7.0	8.7	7.3	6.7	6.3	7.7	7.0	6.3	9.0	7.3	9.0	7.7	8.7	8.0	8.3	9.0	7.7
PENN A-4 (A-4)	8.0	7.3	7.0	5.3	8.3	8.0	6.7	6.3	7.0	6.7	8.0	9.0	8.3	8.7	7.7	8.7	8.0	8.7	8.3	7.7
BAR WS 42102	7.7	7.7	6.7	6.0	8.3	8.7	6.3	6.0	7.3	5.7	7.0	8.3	7.0	8.3	7.7	8.7	8.0	8.7	9.0	7.5
PENN G-6 (G-6)	6.7	7.0	7.0	5.0	8.3	8.7	6.0	6.7	7.0	7.3	7.7	8.7	8.0	8.7	7.7	8.3	8.0	8.7	7.7	7.5
SOUTHSHORE	6.7	7.0	7.0	6.0	8.3	8.0	6.0	6.3	7.0	6.7	6.3	7.7	7.3	8.3	7.0	8.7	8.0	8.7	8.0	7.3
IMPERIAL (SYN 92-5)	7.3	8.0	6.0	5.3	7.7	8.7	6.0	5.7	8.0	5.7	6.7	8.3	7.0	8.7	7.3	7.0	8.0	8.3	9.0	7.3
BACKSPIN (SYN 92-2)	7.0	7.0	6.7	7.0	8.0	7.7	5.7	6.0	6.7	6.7	6.0	8.3	6.3	8.3	7.7	8.0	8.0	8.3	8.3	7.2
CATO	7.0	6.7	6.7	6.0	8.3	8.7	6.0	6.3	7.0	5.7	6.3	8.0	6.7	7.7	7.0	8.3	8.0	8.3	8.7	7.2
LOFTS L-93 (L-93)	7.0	6.0	6.7	4.3	8.0	8.3	5.7	6.0	6.3	6.0	7.3	8.7	7.7	8.3	7.0	8.7	8.0	8.3	8.0	7.2
PROVIDENCE	6.7	6.3	6.7	6.7	8.0	7.0	6.0	6.0	6.7	6.3	5.7	8.0	7.0	8.3	6.7	8.0	7.7	8.3	8.0	7.1
CRENSHAW	7.0	7.3	6.3	5.0	8.3	8.0	6.0	6.3	7.3	5.7	6.3	7.0	6.3	7.7	6.3	8.7	8.0	7.0	8.3	7.0
SR 1020	7.0	6.3	6.7	6.0	8.0	7.7	6.3	6.0	6.7	6.3	5.7	8.0	6.0	7.7	6.7	7.7	8.0	7.3	8.0	6.9
ISI-AP-89150	6.3	6.7	6.3	6.3	7.3	9.0	5.7	5.7	7.0	5.7	4.7	7.0	6.3	7.7	6.0	7.0	7.7	6.3	7.7	6.6
PENNLINKS	6.3	6.0	6.3	3.3	7.7	8.0	5.7	6.0	6.3	5.0	5.3	7.0	6.0	7.3	6.7	8.3	7.3	7.0	7.0	6.5
DG-P	6.3	6.0	5.3	4.0	8.0	7.3	5.7	6.3	7.0	5.7	4.7	6.7	6.0	7.0	7.3	8.3	7.7	6.7	.	6.4
MARINER (SYN-1-88)	6.0	5.7	5.3	5.0	8.0	7.3	5.7	6.3	7.0	5.0	4.3	7.0	5.3	6.7	6.7	8.0	7.7	7.7	7.0	6.4
TRUELINE	6.3	5.3	5.7	5.0	8.0	6.0	5.7	6.0	7.0	5.3	4.3	7.0	5.7	7.0	6.7	7.7	7.0	7.7	7.3	6.4
REGENT	6.3	6.7	5.7	5.0	8.0	6.7	6.0	6.0	6.7	5.7	4.0	6.7	5.0	6.3	6.3	8.0	7.3	6.7	6.3	6.3
18TH GREEN	5.7	6.7	5.3	4.3	8.0	5.3	6.0	5.3	7.7	5.7	3.0	7.0	5.0	8.7	6.7	7.3	7.7	7.3	6.3	6.3
PRO/CUP	6.0	6.0	5.3	5.0	7.3	6.7	5.3	6.0	6.7	5.7	4.3	6.7	5.0	7.0	6.7	7.3	7.3	7.0	6.7	6.2
LOPEZ	6.3	5.0	5.3	2.3	7.7	8.0	6.0	6.0	7.3	5.7	4.3	7.0	5.0	6.7	6.3	7.3	7.7	5.7	6.7	6.1
MSUEB	6.0	6.0	5.3	2.7	8.0	7.0	6.0	6.0	6.7	5.0	4.3	6.3	6.0	6.3	7.0	7.3	7.7	6.3	6.0	6.1
BAR AS 492	5.0	7.0	5.0	4.3	8.3	5.3	5.3	6.0	5.7	4.7	3.7	.	2.7	6.7	7.0	7.7	7.7	7.7	7.3	5.9
TENDENZ	5.7	7.7	5.3	2.7	7.7	4.7	5.7	.	6.3	4.7	2.7	.	3.3	6.7	6.3	8.3	7.0	5.7	5.7	5.6
PENNCROSS	6.0	5.3	4.7	3.0	7.3	6.0	5.7	5.3	6.0	5.3	3.3	6.0	4.3	6.0	5.3	8.0	7.3	6.3	5.7	5.6
SEASIDE	4.7	5.0	4.7	5.0	8.3	4.0	5.0	6.0	5.3	4.7	1.0	4.7	1.7	5.3	6.0	8.3	7.3	5.0	5.0	5.1
LSD VALUE	0.8	1.1	1.3	3.7	0.7	1.3	0.7	0.8	1.4	1.1	1.4	0.8	1.0	1.0	1.0	1.0	0.6	1.1	1.1	0.3
C.V. (%)	7.4	10.5	13.4	46.4	5.8	11.4	7.3	8.2	12.5	12.0	15.8	6.7	10.5	8.6	9.0	7.8	5.1	8.8	8.7	12.2

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 MEANS IN EACH COLUMN.



TABLE 7. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	MN1	OK1	PA1	QE1	WA3	WA4	MEAN
PENN A-4 (A-4)	8.3	7.0	9.0	8.7	6.3	8.0	7.0	7.8
PENN G-2 (G-2)	8.0	7.0	9.0	9.0	6.7	8.0	6.7	7.8
PENN A-1 (A-1)	7.7	6.3	8.3	8.3	6.3	8.0	7.3	7.5
CENTURY (SYN 92-1)	8.0	5.7	9.0	7.0	7.0	7.0	8.0	7.4
PENN G-6 (G-6)	7.3	6.3	8.3	7.7	7.3	7.3	7.3	7.4
BAR WS 42102	5.7	6.3	7.7	7.7	7.0	8.0	8.0	7.2
LOFTS L-93 (L-93)	7.3	6.3	8.3	7.7	5.7	7.0	7.0	7.0
PROVIDENCE	6.7	6.3	8.3	7.7	7.0	7.3	5.7	7.0
IMPERIAL (SYN 92-5)	7.0	6.0	8.3	7.3	6.3	6.3	7.3	7.0
SOUTHSHORE	7.3	6.0	8.3	7.3	7.0	6.3	6.0	6.9
SR 1020	8.0	5.7	8.7	6.3	6.0	6.7	7.0	6.9
CATO	7.0	6.3	7.3	6.3	6.0	7.3	7.3	6.8
BACKSPIN (SYN 92-2)	6.3	6.0	7.7	6.7	7.0	6.7	6.0	6.6
ISI-AP-89150	7.0	6.0	7.0	6.0	7.0	6.0	6.7	6.5
CRENSHAW	6.3	4.7	8.0	6.7	6.7	5.7	5.7	6.2
PRO/CUP	5.7	5.0	7.0	5.0	7.7	6.7	6.3	6.2
TRUELINE	6.0	5.3	7.7	5.3	6.7	6.3	5.7	6.1
DG-P	6.3	5.3	7.7	5.3	6.7	5.3	.	6.1
PENNLINKS	7.0	4.7	8.0	6.0	5.7	6.0	5.3	6.1
MARINER (SYN-1-88)	6.7	5.0	7.3	5.3	5.3	5.0	6.7	5.9
18TH GREEN	6.0	4.7	7.7	5.0	6.3	5.0	5.3	5.7
MSUEB	6.3	5.0	7.3	6.0	5.3	4.7	5.3	5.7
LOPEZ	6.0	5.0	6.7	5.3	6.0	4.7	5.7	5.6
REGENT	6.0	4.7	6.7	5.0	5.3	5.0	5.7	5.5
PENNCROSS	6.3	4.3	6.3	5.0	5.3	4.0	5.3	5.2
TENDENZ	5.7	.	.	3.0	3.7	4.7	5.3	4.5
BAR AS 492	5.7	6.0	.	1.3	1.7	6.3	5.7	4.4
SEASIDE	5.0	4.3	6.0	2.7	4.7	2.7	3.7	4.1
LSD VALUE	0.9	1.3	1.6	1.1	1.3	1.3	1.2	0.5
C.V. (%)	8.7	14.7	12.9	10.7	13.4	12.8	12.2	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 MEANS IN EACH COLUMN.

TABLE 8. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	MN1	OK1	QE1	WA3	MEAN
PENN A-4 (A-4)	8.0	7.0	9.0	8.7	8.3	8.2
CENTURY (SYN 92-1)	7.7	7.0	9.0	9.0	8.0	8.1
PENN A-1 (A-1)	7.3	7.0	8.3	9.0	9.0	8.1
PENN G-2 (G-2)	7.3	7.3	9.0	9.0	7.0	7.9
LOFTS L-93 (L-93)	7.0	7.3	8.3	9.0	7.7	7.9
PENN G-6 (G-6)	6.7	7.0	8.3	9.0	7.3	7.7
CATO	7.3	6.7	7.3	9.0	8.0	7.7
IMPERIAL (SYN 92-5)	7.3	6.0	8.3	9.0	7.7	7.7
BAR WS 42102	7.7	6.7	7.7	9.0	7.0	7.6
SOUTHSHORE	6.7	6.7	8.3	9.0	7.3	7.6
SR 1020	7.3	6.0	8.7	8.7	7.0	7.5
PROVIDENCE	7.0	6.0	8.3	9.0	7.0	7.5
BACKSPIN (SYN 92-2)	7.0	6.3	7.7	9.0	7.0	7.4
CRENSHAW	7.0	5.3	8.0	9.0	6.7	7.2
PENNLINKS	6.7	5.7	8.0	9.0	6.7	7.2
TRUELINE	6.3	6.0	7.7	9.0	7.0	7.2
DG-P	6.3	6.0	7.7	9.0	6.7	7.1
PRO/CUP	6.7	6.3	7.0	9.0	6.0	7.0
ISI-AP-89150	7.0	5.7	7.0	9.0	5.7	6.9
18TH GREEN	6.0	5.0	7.7	9.0	6.3	6.8
MARINER (SYN-1-88)	6.3	5.7	7.0	8.7	6.3	6.8
MSUEB	6.3	5.3	7.3	8.7	6.0	6.7
LOPEZ	7.0	5.7	6.7	9.0	4.7	6.6
REGENT	7.0	5.3	6.7	9.0	5.0	6.6
TENDENZ	5.7	.	.	8.0	6.0	6.6
BAR AS 492	5.7	6.0	.	8.0	6.3	6.5
PENNCROSS	6.7	5.3	6.3	8.0	4.7	6.2
SEASIDE	4.7	5.7	5.7	8.3	3.7	5.6
LSD VALUE	1.0	1.6	1.7	0.4	1.8	0.6
C.V. (%)	9.5	16.1	13.9	2.8	17.1	12.2

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 MEANS IN EACH COLUMN.

TABLE 9.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	IL1	MN1	OK1	PA1	QE1	WA3	WA4	MEAN
PENN A-1 (A-1)	7.3	6.7	6.7	8.3	9.0	7.7	9.0	9.0	8.0
PENN G-2 (G-2)	6.7	6.7	7.0	9.0	9.0	7.7	8.7	8.3	7.9
PENN G-6 (G-6)	6.7	7.0	6.7	8.3	8.7	8.0	8.3	8.3	7.8
CENTURY (SYN 92-1)	7.0	7.3	6.7	9.0	8.0	6.7	9.0	8.3	7.8
PENN A-4 (A-4)	7.7	6.7	6.3	9.0	8.0	7.0	8.3	8.3	7.7
IMPERIAL (SYN 92-5)	6.3	7.3	6.3	8.3	8.3	7.3	8.7	8.7	7.7
CATO	7.0	6.7	6.3	7.3	7.3	7.0	8.7	8.7	7.4
BAR WS 42102	7.0	7.0	5.7	7.7	7.0	7.7	8.0	8.7	7.3
LOFTS L-93 (L-93)	7.0	6.3	6.0	8.3	8.0	7.7	7.7	7.7	7.3
PROVIDENCE	6.3	6.3	6.7	8.3	8.0	7.7	7.7	7.7	7.3
CRENSHAW	6.7	6.0	6.3	8.0	7.3	7.3	8.0	8.7	7.3
BACKSPIN (SYN 92-2)	6.0	7.3	6.0	7.7	7.7	7.3	7.7	8.7	7.3
SR 1020	6.3	6.7	6.0	8.7	7.0	6.7	8.0	7.7	7.1
SOUTHSHORE	6.0	6.0	6.0	8.3	7.7	7.7	8.0	6.3	7.0
ISI-AP-89150	6.0	6.7	5.7	7.0	6.7	7.3	8.3	7.3	6.9
TRUELINE	5.7	5.3	6.3	7.7	5.7	7.3	8.7	7.7	6.8
PRO/CUP	6.3	5.3	6.0	7.0	5.7	7.3	8.3	8.0	6.8
LOPEZ	5.3	6.3	5.7	6.7	6.3	8.0	8.7	7.0	6.8
MSUEB	5.7	5.7	6.0	7.3	7.0	7.0	8.0	6.7	6.7
MARINER (SYN-1-88)	5.0	5.7	6.0	7.3	6.3	7.3	7.3	8.0	6.6
DG-P	5.3	6.0	6.0	7.7	6.3	7.0	7.7	.	6.6
PENNLINKS	5.3	6.0	5.7	8.0	6.7	7.3	6.3	6.3	6.5
REGENT	6.7	5.0	6.3	6.7	6.7	7.7	6.7	5.7	6.4
18TH GREEN	5.3	4.7	6.0	7.7	6.3	7.3	7.0	6.3	6.3
BAR AS 492	6.0	5.7	6.3	.	2.3	6.0	7.7	8.7	6.1
PENNCROSS	5.7	4.0	5.3	6.3	5.0	6.7	6.7	4.3	5.5
SEASIDE	5.0	4.0	6.0	6.0	3.3	7.0	7.7	4.7	5.5
TENDENZ	6.0	5.3	.	.	2.7	6.7	7.0	4.7	5.4
LSD VALUE	1.2	1.4	0.9	1.6	1.0	1.1	1.4	1.5	0.5
C.V. (%)	12.1	14.1	9.6	12.9	8.9	9.3	10.8	12.6	11.4

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

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

TABLE 10. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MN1	OK1	MEAN
CATO	99.0	98.3	98.7
SOUTHSHORE	96.3	98.3	97.3
PENN A-1 (A-1)	95.7	98.3	97.0
ISI-AP-89150	96.3	97.3	96.8
PENN G-6 (G-6)	94.7	98.7	96.7
IMPERIAL (SYN 92-5)	95.3	98.0	96.7
SR 1020	94.0	97.7	95.8
PROVIDENCE	92.7	98.3	95.5
REGENT	93.7	97.0	95.3
LOFTS L-93 (L-93)	92.3	98.0	95.2
PENNLINKS	91.7	98.0	94.8
PRO/CJP	91.7	98.0	94.8
CENTURY (SYN 92-1)	91.3	98.3	94.8
PENNCROSS	93.0	96.3	94.7
TRUELINE	90.0	98.3	94.2
18TH GREEN	91.7	96.3	94.0
PENN G-2 (G-2)	89.3	97.7	93.5
DG-P	88.3	98.0	93.2
BACKSPIN (SYN 92-2)	86.3	98.3	92.3
MSUEB	86.3	97.7	92.0
MARINER (SYN-1-88)	86.7	97.0	91.8
PENN A-4 (A-4)	76.3	98.7	87.5
CRENSHAW	74.7	98.7	86.7
LOPEZ	60.0	97.3	78.7
BAR AS 492	78.3	.	78.3
BAR WS 42102	89.7	66.0	77.8
SEASIDE	61.7	93.0	77.3
LSD VALUE	24.1	16.2	14.8
C.V. (%)	17.0	10.4	13.9

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 MEANS IN EACH COLUMN.

TABLE 11. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	MS1	OK1	MEAN
PENNCROSS	94.7	51.7	98.7	81.7
REGENT	95.0	45.0	99.0	79.7
TRUELINE	97.7	36.7	99.0	77.8
BACKSPIN (SYN 92-2)	92.3	40.0	98.7	77.0
LOFTS L-93 (L-93)	92.7	38.3	99.0	76.7
LOPEZ	97.7	33.3	98.7	76.6
MSUEB	91.3	36.7	99.0	75.7
PENN G-6 (G-6)	97.7	28.3	98.7	74.9
ISI-AP-89150	88.3	35.0	99.0	74.1
PENN A-1 (A-1)	96.3	26.7	99.0	74.0
DG-P	90.0	31.7	99.0	73.6
SR 1020	93.0	28.3	99.0	73.4
PRO/CUP	86.7	33.3	99.0	73.0
PENN G-2 (G-2)	96.3	25.0	96.7	72.7
CENTURY (SYN 92-1)	86.7	31.7	98.0	72.1
SOUTHSHORE	94.7	20.0	98.3	71.0
CRENSHAW	91.3	23.3	98.0	70.9
PROVIDENCE	85.0	28.3	99.0	70.8
PENN A-4 (A-4)	97.7	15.0	99.0	70.6
IMPERIAL (SYN 92-5)	89.7	21.7	99.0	70.1
MARINER (SYN-1-88)	75.0	35.0	98.7	69.6
CATO	94.7	11.7	99.0	68.4
PENNLINKS	90.7	13.3	99.0	67.7
18TH GREEN	86.7	13.3	98.0	66.0
SEASIDE	78.3	36.7	82.7	65.9
TENDENZ	.	31.7	99.0	65.3
BAR WS 42102	95.0	31.7	68.7	65.1
BAR AS 492	86.7	28.3	.	57.5
LSD VALUE	17.8	27.8	19.6	13.1
C.V. (%)	12.2	57.6	12.1	18.9

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 MEANS IN EACH COLUMN.

TABLE 12. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MN1	MS1	OK1	MEAN
PENNCROSS	90.0	76.3	97.3	87.9
ISI-AP-89150	88.3	63.3	97.0	82.9
TRUELINE	95.0	53.3	97.3	81.9
MARINER (SYN-1-88)	83.3	65.0	97.3	81.9
REGENT	88.3	60.0	97.0	81.8
LOPEZ	90.0	56.7	98.0	81.6
MSUEB	86.7	60.0	97.7	81.4
PENN G-6 (G-6)	93.3	51.7	99.0	81.3
PENN A-1 (A-1)	95.0	50.0	98.7	81.2
LOFTS L-93 (L-93)	90.7	53.3	99.0	81.0
BACKSPIN (SYN 92-2)	86.7	53.3	98.3	79.4
SEASIDE	83.3	63.3	91.7	79.4
SR 1020	93.3	46.7	97.7	79.2
PRO/CUP	88.3	50.0	97.7	78.7
CENTURY (SYN 92-1)	85.0	50.0	98.3	77.8
PROVIDENCE	90.0	43.3	98.3	77.2
SOUTHSHORE	90.0	40.0	98.7	76.2
DG-P	81.7	48.3	98.0	76.0
IMPERIAL (SYN 92-5)	90.0	38.3	97.7	75.3
CRENSHAW	85.0	41.7	99.0	75.2
CATO	91.0	35.0	98.3	74.8
PENN A-4 (A-4)	93.3	31.7	99.0	74.7
PENNLINKS	86.7	38.3	98.0	74.3
PENN G-2 (G-2)	88.3	35.0	95.7	73.0
18TH GREEN	90.0	30.0	97.3	72.4
BAR AS 492	85.0	55.0	.	70.0
BAR WS 42102	89.3	53.3	64.0	68.9
TENDENZ	.	53.3	.	53.3
LSD VALUE	14.1	36.1	16.1	14.6
C.V. (%)	9.9	44.6	10.4	19.4

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 MEANS IN EACH COLUMN.

TABLE 13. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	AZ1	OK1	MEAN
PENN A-4 (A-4)	8.0	5.0	6.5
TENDENZ	6.3	.	6.3
LOFTS L-93 (L-93)	7.7	4.3	6.0
CATO	7.0	4.7	5.8
DG-P	6.3	4.7	5.5
PENN A-1 (A-1)	7.0	4.0	5.5
REGENT	6.7	4.0	5.3
BAR AS 492	5.3	.	5.3
PENN G-6 (G-6)	7.0	3.3	5.2
PROVIDENCE	6.7	3.7	5.2
SR 1020	6.3	4.0	5.2
18TH GREEN	7.0	3.0	5.0
CRENSHAW	7.3	2.7	5.0
ISI-AP-89150	6.3	3.7	5.0
MSUEB	6.0	3.7	4.8
SOUTHSHORE	6.0	3.7	4.8
IMPERIAL (SYN 92-5)	6.0	3.3	4.7
PENN G-2 (G-2)	6.0	3.3	4.7
CENTURY (SYN 92-1)	5.7	3.3	4.5
LOPEZ	5.7	3.3	4.5
PENNLINKS	5.0	4.0	4.5
BAR WS 42102	6.0	2.7	4.3
PENNCROSS	6.0	2.7	4.3
PRO/CJP	5.3	3.3	4.3
TRUELINE	5.3	3.3	4.3
BACKSPIN (SYN 92-2)	5.0	3.0	4.0
MARINER (SYN-1-88)	4.3	3.3	3.8
SEASIDE	5.0	2.3	3.7
LSD VALUE	0.9	1.2	0.8
C.V. (%)	9.0	21.6	13.6

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 MEANS IN EACH COLUMN.

TABLE 14. PERCENT WINTER KILL RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	IA1	MN1	MEAN
TENDENZ	63.3	.	63.3
PENN A-4 (A-4)	70.0	18.3	44.2
CRENSHAW	73.3	13.3	43.3
PENN G-2 (G-2)	76.7	1.7	39.2
PENN G-6 (G-6)	76.7	1.7	39.2
BAR WS 42102	76.7	0.0	38.3
CATO	76.7	0.0	38.3
BACKSPIN (SYN 92-2)	70.0	5.0	37.5
BAR AS 492	70.0	3.3	36.7
SR 1020	73.3	0.0	36.7
18TH GREEN	63.3	8.3	35.8
PROVIDENCE	70.0	0.0	35.0
PENN A-1 (A-1)	63.3	3.3	33.3
LOPEZ	63.3	2.0	32.7
IMPERIAL (SYN 92-5)	63.3	0.0	31.7
SEASIDE	60.0	3.3	31.7
TRUELINE	60.0	0.7	30.3
SOUTHSHORE	56.7	1.3	29.0
CENTURY (SYN 92-1)	53.3	1.7	27.5
DG-P	53.3	0.0	26.7
LOFTS L-93 (L-93)	53.3	0.0	26.7
MARINER (SYN-1-88)	46.7	6.7	26.7
PENNLINKS	50.0	2.3	26.2
ISI-AP-89150	50.0	1.7	25.8
REGENT	46.7	5.0	25.8
MSUEB	46.7	1.0	23.8
PRO/CUP	46.7	0.7	23.7
PENNCROSS	43.3	1.7	22.5
LSD VALUE	20.8	10.5	11.9
C.V. (%)	21.1	211.5	31.4

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 MEANS IN EACH COLUMN.



TABLE 15. FUSARIUM PATCH RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	WA1	WA3	WA4	MEAN
SOUTHSHORE	8.0	7.0	7.7	7.6
PENNCROSS	6.0	8.7	8.0	7.6
DG-P	8.0	7.0	.	7.5
CATO	6.7	7.7	7.7	7.3
BACKSPIN (SYN 92-2)	6.7	7.3	7.7	7.2
PENNLINKS	6.7	6.7	8.0	7.1
LOFTS L-93 (L-93)	7.0	7.0	6.3	6.8
PRO/CUP	6.3	7.7	6.3	6.8
BAR WS 42102	6.7	6.3	7.0	6.7
REGENT	7.3	6.7	6.0	6.7
BAR AS 492	6.3	6.0	7.3	6.6
ISI-AP-89150	6.3	7.3	5.7	6.4
CENTURY (SYN 92-1)	7.0	5.3	6.7	6.3
PENN A-4 (A-4)	5.7	7.0	6.3	6.3
LOPEZ	5.7	5.7	7.3	6.2
SEASIDE	5.0	6.7	7.0	6.2
IMPERIAL (SYN 92-5)	6.3	7.3	5.0	6.2
MARINER (SYN-1-88)	5.7	6.3	5.7	5.9
PROVIDENCE	7.3	5.0	5.3	5.9
CRENSHAW	6.7	6.0	4.7	5.8
SR 1020	6.0	5.7	5.7	5.8
MSUEB	7.0	6.0	3.7	5.6
TENDENZ	5.7	3.7	7.3	5.6
TRUELINE	6.0	5.3	5.3	5.6
PENN A-1 (A-1)	5.7	4.0	5.3	5.0
18TH GREEN	5.3	3.3	4.7	4.4
PENN G-6 (G-6)	5.3	3.0	3.0	3.8
PENN G-2 (G-2)	4.0	3.0	3.7	3.6
LSD VALUE	2.2	2.5	3.1	1.5
C.V. (%)	21.8	25.8	31.9	26.7

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 MEANS IN EACH COLUMN.

TABLE 16. LEAF SPOT (JULY) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	WI1	WI2	MEAN
BAR WS 42102	9.0	9.0	9.0
CRENSHAW	9.0	9.0	9.0
ISI-AP-89150	9.0	9.0	9.0
MARINER (SYN-1-88)	9.0	9.0	9.0
MSUEB	9.0	9.0	9.0
PENN G-2 (G-2)	9.0	9.0	9.0
PENN G-6 (G-6)	9.0	9.0	9.0
PENNCROSS	9.0	9.0	9.0
PENNLINKS	9.0	9.0	9.0
PROVIDENCE	9.0	9.0	9.0
REGENT	9.0	9.0	9.0
SR 1020	9.0	9.0	9.0
TRUELINE	9.0	9.0	9.0
DG-P	8.7	9.0	8.8
LOFTS L-93 (L-93)	8.7	9.0	8.8
LOPEZ	8.7	9.0	8.8
PRO/CJP	8.7	9.0	8.8
18TH GREEN	8.3	9.0	8.7
SEASIDE	8.3	9.0	8.7
TENDENZ	8.3	9.0	8.7
CATO	8.0	9.0	8.5
PENN A-4 (A-4)	8.0	9.0	8.5
SOUTHSHORE	8.0	9.0	8.5
BAR AS 492	7.3	9.0	8.2
CENTURY (SYN 92-1)	6.0	9.0	7.5
IMPERIAL (SYN 92-5)	5.3	9.0	7.2
BACKSPIN (SYN 92-2)	6.0	8.0	7.0
PENN A-1 (A-1)	4.3	7.3	5.8
LSD VALUE	1.4	0.7	0.8
C.V. (%)	10.9	4.9	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 MEANS IN EACH COLUMN.

TABLE 17. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	MI1	MN1	NJ1	OK1	RI1	TX1	VA1	MEAN
MSUEB	7.3	8.3	6.0	9.0	7.7	5.7	9.0	7.6
BAR WS 42102	7.0	8.3	6.3	9.0	6.7	6.7	8.7	7.5
LOFTS L-93 (L-93)	7.7	8.3	7.0	9.0	7.0	4.7	9.0	7.5
PENN A-1 (A-1)	7.3	9.0	5.7	8.7	6.3	6.3	8.7	7.4
SEASIDE	6.7	8.3	6.0	8.3	7.3	6.0	8.3	7.3
PROVIDENCE	7.3	7.7	5.0	8.7	6.3	7.3	8.7	7.3
REGENT	6.0	8.0	6.7	9.0	7.0	5.7	8.7	7.3
BAR AS 492	6.7	7.3	7.7	.	7.7	6.3	8.0	7.3
ISI-AP-89150	6.7	8.3	5.3	9.0	7.3	5.3	8.7	7.2
PENNLINKS	7.0	8.0	6.0	9.0	6.7	4.7	8.7	7.1
PENN G-2 (G-2)	6.3	8.0	5.7	9.0	5.7	5.7	9.0	7.0
PENNCROSS	5.7	8.3	5.7	8.3	6.7	6.0	8.7	7.0
DG-P	6.0	7.7	5.7	8.7	6.7	6.3	8.0	7.0
TRUELINE	6.7	8.0	4.7	9.0	6.3	5.7	8.3	7.0
MARINER (SYN-1-88)	6.0	8.0	4.3	8.7	5.7	8.0	8.0	7.0
TENLENZ	6.7	.	7.3	8.0	7.3	4.7	7.7	6.9
PENN A-4 (A-4)	6.7	7.3	4.0	8.3	6.3	7.7	8.0	6.9
SOUTHSHORE	6.0	8.0	5.0	7.3	6.0	8.0	7.7	6.9
PRO/CUP	5.3	7.0	5.0	8.3	5.3	8.0	8.3	6.8
CATO	6.7	8.3	4.7	8.3	5.7	5.0	8.7	6.8
PENN G-6 (G-6)	6.0	8.0	4.3	8.0	6.0	6.0	8.7	6.7
IMPERIAL (SYN 92-5)	6.0	8.3	4.0	8.0	5.3	5.3	8.3	6.5
LOPEZ	5.7	8.0	3.7	9.0	6.0	5.0	8.0	6.5
BACKSPIN (SYN 92-2)	5.7	7.3	3.3	7.7	5.3	6.3	7.0	6.1
SR 1020	5.3	7.3	3.3	8.0	3.7	6.7	7.3	6.0
CENTURY (SYN 92-1)	5.7	6.7	4.0	7.0	4.3	5.3	7.7	5.8
CRENSHAW	5.0	7.3	3.7	7.0	3.7	6.0	6.7	5.6
18TH GREEN	4.3	6.3	3.0	5.7	3.3	7.0	6.7	5.2
LSD VALUE	1.2	1.5	1.5	0.9	1.4	1.1	1.6	0.5
C.V. (%)	12.2	11.7	18.0	6.3	14.9	11.1	12.5	12.2

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 MEANS IN EACH COLUMN.

TABLE 18. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT MADISON, WISCONSIN (WI1) 1/  
1996 DATA

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

NAME	JUNE	JULY	MEAN
BAR AS 492	9.0	9.0	9.0
BAR WS 42102	9.0	9.0	9.0
CATO	9.0	9.0	9.0
DG-P	9.0	9.0	9.0
IMPERIAL (SYN 92-5)	9.0	9.0	9.0
ISI-AP-89150	9.0	9.0	9.0
LOFTS L-93 (L-93)	9.0	9.0	9.0
MARINER (SYN-1-88)	9.0	9.0	9.0
PENN A-1 (A-1)	9.0	9.0	9.0
PENN A-4 (A-4)	9.0	9.0	9.0
PENN G-2 (G-2)	9.0	9.0	9.0
PENN G-6 (G-6)	9.0	9.0	9.0
PENNCROSS	9.0	9.0	9.0
PROVIDENCE	9.0	9.0	9.0
SEASIDE	9.0	9.0	9.0
SR 1020	9.0	9.0	9.0
TENDENZ	9.0	9.0	9.0
TRUELINE	9.0	9.0	9.0
REGENT	8.7	9.0	8.8
SOUTHSHORE	8.7	9.0	8.8
18TH GREEN	9.0	8.3	8.7
BACKSPIN (SYN 92-2)	9.0	8.3	8.7
MSUEB	8.3	9.0	8.7
PENNLINKS	8.3	9.0	8.7
CENTURY (SYN 92-1)	9.0	8.0	8.5
LOPEZ	8.3	8.7	8.5
CRENSHAW	8.0	7.7	7.8
PRO/CJP	7.3	7.7	7.5
LSD VALUE	1.7	1.8	1.4
C.V. (%)	6.9	7.2	6.0

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 MEANS IN EACH COLUMN.

TABLE 19. DOLLAR SPOT (APRIL) RATINGS OF BENTGRASS CULTIVARS  
 GROWN ON A GREEN 1/  
 1996 DATA

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

NAME	TX1
MARINER (SYN-1-88)	8.0
PRO/CUP	8.0
SOUTHSHORE	8.0
PENN A-4 (A-4)	7.7
PROVIDENCE	7.3
18TH GREEN	6.7
BAR WS 42102	6.7
SR 1020	6.7
BACKSPIN (SYN 92-2)	6.3
BAR AS 492	6.3
DG-P	6.3
PENN A-1 (A-1)	6.3
PENN G-6 (G-6)	6.0
PENNCROSS	6.0
SEASIDE	6.0
CRENSHAW	5.7
MSUEB	5.7
PENN G-2 (G-2)	5.7
REGENT	5.7
TRUELINE	5.7
CENTURY (SYN 92-1)	5.3
IMPERIAL (SYN 92-5)	5.3
ISI-AP-89150	5.3
CATO	5.0
LOPEZ	5.0
LOFTS L-93 (L-93)	4.7
PENNLINKS	4.7
TENDENZ	4.7
LSD VALUE	1.1
C.V. (%)	11.0

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

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

TABLE 20. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	NJ1
18TH GREEN	9.0
LOFTS L-93 (L-93)	8.7
PENN G-6 (G-6)	8.7
PROVIDENCE	8.7
BAR WS 42102	8.3
PRO/CUP	8.3
CATO	8.0
CENTURY (SYN 92-1)	8.0
CRENSHAW	8.0
LOPEZ	8.0
PENN A-4 (A-4)	8.0
SOUTHSHORE	8.0
PENN A-1 (A-1)	7.7
PENN G-2 (G-2)	7.7
PENNCROSS	7.7
REGENT	7.7
TRUELINE	7.7
PENNLINKS	7.3
BACKSPIN (SYN 92-2)	7.0
DG-P	7.0
IMPERIAL (SYN 92-5)	7.0
ISI-AP-89150	7.0
MSUEB	6.7
SR 1020	6.7
MARINER (SYN-1-88)	5.3
TENDENZ	4.3
SEASIDE	4.0
BAR AS 492	3.3
LSD VALUE	1.4
C.V. (%)	11.7

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 MEANS IN EACH COLUMN.

TABLE 21. PERCENT TYPHULA RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN 2/  
 1996 DATA

NAME	NJ1
CRENSHAW	51.7
MARINER (SYN-1-88)	46.7
PENN G-2 (G-2)	36.3
SEASIDE	32.7
SR 1020	24.3
18TH GREEN	23.7
PENN G-6 (G-6)	11.7
ISI-AP-89150	10.7
CENTURY (SYN 92-1)	10.3
PROVIDENCE	10.3
BACKSPIN (SYN 92-2)	8.7
REGENT	8.3
PENN A-4 (A-4)	8.0
SOUTHSHORE	8.0
TRUELINE	7.7
IMPERIAL (SYN 92-5)	7.0
PENNCROSS	6.7
CATO	6.3
PENNLINKS	6.3
PRO/CUP	6.3
MSUEB	5.7
BAR WS 42102	5.0
PENN A-1 (A-1)	5.0
DG-P	4.7
LOFTS L-93 (L-93)	3.7
LOPEZ	3.0
TENDENZ	2.3
BAR AS 492	1.7
LSD VALUE	13.4
C.V. (%)	64.1

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 MEANS IN EACH COLUMN.

TABLE 22. PERCENT YELLOW PATCH RATINGS OF BENTGRASS CULTIVARS 1/  
 GROWN ON A GREEN 2/  
 1996 DATA

NAME	PA1
SEASIDE	35.0
PENN G-2 (G-2)	26.7
MARINER (SYN-1-88)	26.0
SR 1020	22.7
CRENSHAW	15.7
PENNLINKS	15.7
ISI-AP-89150	11.0
PENN A-4 (A-4)	11.0
PENN G-6 (G-6)	11.0
18TH GREEN	10.3
BAR WS 42102	10.0
PENNCROSS	10.0
LOPEZ	9.3
MSUEB	9.3
PRO/CUP	8.3
REGENT	7.0
CENTURY (SYN 92-1)	5.7
TENDENZ	5.3
DG-P	5.0
IMPERIAL (SYN 92-5)	4.7
PENN A-1 (A-1)	4.3
CATO	4.0
PROVIDENCE	3.7
SOUTHSHORE	3.7
TRUELINE	3.7
BAR AS 492	1.7
BACKSPIN (SYN 92-2)	1.3
LOFTS L-93 (L-93)	0.3
LSD VALUE	9.7
C.V. (%)	60.1

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 MEANS IN EACH COLUMN.



TABLE 23. COPPER SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

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

NAME	NJ1
BAR AS 492	9.0
PENNCROSS	9.0
PENNLINKS	9.0
TENDENZ	9.0
18TH GREEN	8.7
CATO	8.7
LOPEZ	8.7
MSUEB	8.7
PRO/CUP	8.7
REGENT	8.7
ISI-AP-89150	8.3
LOFTS L-93 (L-93)	8.3
PROVIDENCE	8.3
SEASIDE	8.3
BACKSPIN (SYN 92-2)	8.0
BAR WS 42102	8.0
DG-P	8.0
SR 1020	8.0
PENN A-4 (A-4)	7.7
PENN G-6 (G-6)	7.7
SOUTHSHORE	7.3
TRUELINE	7.3
CENTURY (SYN 92-1)	6.7
IMPERIAL (SYN 92-5)	6.7
PENN A-1 (A-1)	6.7
MARINER (SYN-1-88)	6.0
CRENSHAW	5.0
PENN G-2 (G-2)	4.7
LSD VALUE	1.3
C.V. (%)	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 MEANS IN EACH COLUMN.

TABLE 24. WINTER VERDURE RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

WINTER VERDURE RATINGS 1-9; 9=BEST 2/

NAME	WA3	WA4	MEAN
CENTURY (SYN 92-1)	5.0	7.7	6.3
PROVIDENCE	6.0	6.7	6.3
LOFTS L-93 (L-93)	5.0	7.0	6.0
PENN A-4 (A-4)	5.3	6.3	5.8
BACKSPIN (SYN 92-2)	4.3	7.0	5.7
SOUTHSHORE	5.3	6.0	5.7
LOPEZ	5.0	5.7	5.3
IMPERIAL (SYN 92-5)	4.0	6.3	5.2
PENNLINKS	5.0	5.3	5.2
ISI-AP-89150	3.3	6.3	4.8
REGENT	3.7	6.0	4.8
CATO	3.7	5.7	4.7
DG-P	4.7	.	4.7
TRUELINE	4.7	4.3	4.5
PENN G-2 (G-2)	5.0	3.7	4.3
PRO/CJP	5.0	3.3	4.2
MSUEB	4.3	4.0	4.2
SR 1020	4.0	4.3	4.2
PENN G-6 (G-6)	4.0	4.0	4.0
PENNCROSS	3.7	4.3	4.0
BAR AS 492	4.7	3.0	3.8
SEASIDE	3.7	4.0	3.8
MARINER (SYN-1-88)	4.0	3.3	3.7
PENN A-1 (A-1)	2.7	4.3	3.5
18TH GREEN	2.0	4.3	3.2
TENDENZ	3.0	3.0	3.0
CRENSHAW	2.3	2.7	2.5
BAR WS 42102	2.7	2.0	2.3
LSD VALUE	1.4	1.7	1.1
C.V. (%)	20.9	21.3	21.2

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 MEANS IN EACH COLUMN.

TABLE 25. POA ANNUA RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

POA ANNUA RATINGS 1-9; 9=NO POA ANNUA 2/

NAME	VA1
SEASIDE	7.0
BAR WS 42102	6.3
TENDENZ	6.0
REGENT	5.7
LOPEZ	5.3
SR 1020	5.3
ISI-AP-89150	5.0
MARINER (SYN-1-88)	5.0
PRO/CUP	5.0
SOUTHSHORE	5.0
BAR AS 492	4.7
DG-P	4.7
MSUEB	4.7
PENNCROSS	4.7
18TH GREEN	4.3
CRENSHAW	4.0
PROVIDENCE	4.0
TRUELINE	4.0
CATO	3.7
PENN G-2 (G-2)	3.7
PENNLINKS	3.7
IMPERIAL (SYN 92-5)	3.3
LOFTS L-93 (L-93)	3.3
CENTURY (SYN 92-1)	3.0
PENN A-1 (A-1)	3.0
BACKSPIN (SYN 92-2)	2.3
PENN A-4 (A-4)	2.3
PENN G-6 (G-6)	2.0
LSD VALUE	1.8
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 MEANS IN EACH COLUMN.

TABLE 26. DORMANCY UNIFORMITY (DECEMBER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

DORMANCY UNIFORMITY RATINGS 1-9; 9=BEST 2/

NAME	NJ1
LOFTS L-93 (L-93)	7.7
MSUEB	7.3
DG-P	7.0
CATO	6.7
PENN A-4 (A-4)	6.7
PENNLINKS	6.7
REGENT	6.7
PENNCROSS	6.3
SOUTHSHORE	6.0
PENN A-1 (A-1)	5.7
PROVIDENCE	5.7
TRUELINE	5.7
CENTURY (SYN 92-1)	5.3
LOPEZ	5.3
MARINER (SYN-1-88)	5.3
PENN G-2 (G-2)	5.3
SR 1020	5.3
18TH GREEN	5.0
PENN G-6 (G-6)	5.0
BACKSPIN (SYN 92-2)	4.7
CRENSHAW	4.3
IMPERIAL (SYN 92-5)	4.3
PRO/CUP	4.3
ISI-AP-89150	4.0
SEASIDE	3.3
BAR WS 42102	3.0
BAR AS 492	2.3
TENDENZ	2.0
LSD VALUE	1.1
C.V. (%)	13.5

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

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

TABLE 27. BLACK TURFGRASS ATAENIUS RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

BLACK TURFGRASS ATAENIUS RATINGS 1-9; 9=NO DAMAGE 1/

NAME	KS1
PRO/CUP	8.7
BAR AS 492	8.3
REGENT	8.0
TRUELINE	8.0
CENTURY (SYN 92-1)	7.7
LOFTS L-93 (L-93)	7.7
CATO	7.3
LOPEZ	7.3
BACKSPIN (SYN 92-2)	7.0
BAR WS 42102	7.0
IMPERIAL (SYN 92-5)	6.7
PENN A-1 (A-1)	6.7
PENN A-4 (A-4)	6.7
SOUTHSHORE	6.7
CRENSHAW	6.3
PENNCROSS	6.3
PENNLINKS	6.3
DG-P	6.0
ISI-AP-89150	6.0
MARINER (SYN-1-88)	6.0
MSUEB	6.0
TENDENZ	6.0
18TH GREEN	5.7
PENN G-2 (G-2)	5.7
PENN G-6 (G-6)	5.7
PROVIDENCE	5.7
SEASIDE	5.7
SR 1020	5.3
LSD VALUE	3.0
C.V. (%)	28.4

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 MEANS IN EACH COLUMN.

TABLE 28. THATCH ASHED DRY WEIGHT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

THATCH ASHED DRY WEIGHT: KG./SQ.M. 2/

NAME	WA3	WA4	MEAN
PENN G-2 (G-2)	3.3	2.8	3.1
DG-P	3.1	.	3.1
PENN A-1 (A-1)	3.3	2.8	3.1
PROVIDENCE	3.2	2.6	2.9
BAR WS 42102	3.0	2.7	2.9
SR 1020	3.2	2.5	2.9
TRUELINE	3.2	2.5	2.9
PENN G-6 (G-6)	2.9	2.7	2.8
LOFTS L-93 (L-93)	2.9	2.8	2.8
PENNCROSS	3.1	2.5	2.8
CENTURY (SYN 92-1)	2.9	2.7	2.8
CRENSHAW	3.2	2.4	2.8
PENN A-4 (A-4)	3.0	2.6	2.8
SOUTHSHORE	3.1	2.5	2.8
PRO/CUP	3.0	2.5	2.8
IMPERIAL (SYN 92-5)	2.8	2.7	2.7
CATO	2.7	2.7	2.7
PENNLINKS	3.1	2.3	2.7
ISI-AP-89150	3.0	2.4	2.7
REGENT	2.9	2.4	2.7
LOPEZ	2.7	2.5	2.6
BACKSPIN (SYN 92-2)	2.8	2.4	2.6
BAR AS 492	3.0	2.0	2.5
TENDENZ	2.8	2.3	2.5
MARINER (SYN-1-88)	2.7	2.4	2.5
18TH GREEN	2.8	2.1	2.5
SEASIDE	2.8	2.1	2.4
MSUEB	2.6	2.0	2.3
LSD VALUE	0.2	0.3	0.2
C.V. (%)	4.1	6.5	5.2

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 MEANS IN EACH COLUMN.

TABLE 29. ROOT DEPTH RATINGS OF BENTGRASS CULTIVARS  
 GROWN ON A GREEN AT DALLAS, TEXAS (TX1) 1/  
 1996 DATA

ROOT DEPTH MEASURED THE LONGEST ROOT PER PLOT IN MILLIMETER 2/

NAME	MARCH	JUNE	MEAN
BACKSPIN (SYN 92-2)	23.3	21.7	22.5
PENN G-2 (G-2)	22.0	21.3	21.7
PENNLINKS	21.3	21.3	21.3
PROVIDENCE	21.7	21.0	21.3
SR 1020	21.7	21.0	21.3
CRENSHAW	21.3	21.0	21.2
CATO	20.3	20.3	20.3
LOPEZ	20.3	20.3	20.3
DG-P	20.0	20.0	20.0
CENTURY (SYN 92-1)	19.3	19.7	19.5
MSUEB	19.7	19.3	19.5
SEASIDE	20.0	19.0	19.5
PENNCROSS	19.7	18.3	19.0
PENN A-4 (A-4)	18.7	19.0	18.8
PENN A-1 (A-1)	18.7	18.7	18.7
BAR AS 492	18.7	18.0	18.3
LOFTS L-93 (L-93)	18.3	18.3	18.3
REGENT	18.7	18.0	18.3
TRUELINE	17.7	18.3	18.0
18TH GREEN	18.0	17.7	17.8
MARINER (SYN-1-88)	18.0	17.7	17.8
SOUTHSHORE	18.0	17.7	17.8
ISI-AP-89150	17.7	17.7	17.7
PENN G-6 (G-6)	17.3	17.7	17.5
IMPERIAL (SYN 92-5)	17.3	17.3	17.3
PRO/CUP	17.7	17.0	17.3
TENDENZ	21.0	13.3	17.2
BAR WS 42102	15.7	15.3	15.5
LSD VALUE	8.1	12.6	9.4
C.V. (%)	14.4	19.2	15.3

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 MEANS IN EACH COLUMN.

TABLE 30. TILLER COUNTS OF BENTGRASS CULTIVARS GROWN ON A GREEN AT DALLAS, TEXAS (TX1) 1/  
1996 DATA

NUMBER OF TILLERS IN ONE 1.5 CM SAMPLE PER PLOT 2/

NAME	MARCH	JUNE	MEAN
PENN G-6 (G-6)	67.3	67.0	67.2
PENN A-1 (A-1)	66.3	64.3	65.3
TENDENZ	61.7	59.7	60.7
SOUTHSHORE	61.0	58.7	59.8
PROVIDENCE	60.0	59.3	59.7
BAR WS 42102	52.0	52.0	52.0
PENNLINKS	52.0	50.0	51.0
SEASIDE	51.7	48.7	50.2
TRUELINE	49.7	46.0	47.8
PENN A-4 (A-4)	49.0	46.0	47.5
18TH GREEN	46.3	48.0	47.2
SR 1020	47.7	46.0	46.8
PENN G-2 (G-2)	46.7	46.3	46.5
DG-P	46.3	46.3	46.3
BAR AS 492	45.7	45.7	45.7
CATO	45.3	45.3	45.3
IMPERIAL (SYN 92-5)	44.7	45.7	45.2
PRO/CUP	46.3	44.0	45.2
LOFTS L-93 (L-93)	44.0	44.0	44.0
REGENT	44.0	44.0	44.0
ISI-AP-89150	44.0	42.3	43.2
LOPEZ	42.0	42.3	42.2
PENNCROSS	42.7	38.3	40.5
MSUEB	40.7	40.0	40.3
CRENSHAW	41.3	39.0	40.2
MARINER (SYN-1-88)	41.0	39.0	40.0
BACKSPIN (SYN 92-2)	41.7	36.7	39.2
CENTURY (SYN 92-1)	39.7	38.0	38.8
LSD VALUE	27.3	22.7	24.3
C.V. (%)	22.5	21.4	21.7

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 MEANS IN EACH COLUMN.



TABLE 31. FROST TOLERANCE RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN 1/  
1996 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/

NAME	QE1
PENN G-6 (G-6)	9.0
CRENSHAW	8.7
SOUTHSHORE	8.7
BAR WS 42102	8.3
CENTURY (SYN 92-1)	8.3
DG-P	8.3
PRO/CUP	8.3
PROVIDENCE	8.3
BACKSPIN (SYN 92-2)	8.0
ISI-AP-89150	8.0
18TH GREEN	7.7
IMPERIAL (SYN 92-5)	7.7
LOPEZ	7.7
PENNLINKS	7.7
PENN A-4 (A-4)	7.3
PENN G-2 (G-2)	7.3
SR 1020	7.3
TRUELINE	7.3
CATO	7.0
PENN A-1 (A-1)	7.0
PENNCROSS	6.7
REGENT	6.7
LOFTS L-93 (L-93)	6.3
MARINER (SYN-1-88)	6.3
SEASIDE	6.3
MSUEB	6.0
TENDENZ	5.0
BAR AS 492	1.3
LSD VALUE	1.7
C.V. (%)	15.0

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 MEANS IN EACH COLUMN.