

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.

Executive Director - Dr. Robert Shearman, University of Nebraska

National Program Coordinator - Kevin N. Morris, National Turfgrass Federation, Inc.

CURRENT POLICY COMMITTEE MEMBERS:

Dr. Richard White, Texas A&M University
Dr. Anthony Koski, Colorado State University
Dr. Thomas Fermanian, University of Illinois
Dr. Gerald Pepin, Pickseed West, Inc.
Dr. Bridget Ruummele, University of Rhode Island
Mr. Al Gardner, A-G Turf Farms, Inc.
Dr. Michael Kenna, USGA Green Section
Ms. Crystal Rose-Fricker, Pure-Seed Testing, Inc.

FOR ADDITIONAL REPORTS OR INFORMATION WRITE:

Kevin Morris, National Program Coordinator
National Turfgrass Evaluation Program
Beltsville Agricultural Research Center-West
Building 002, Room 013
Beltsville, Maryland 20705

CONTENTS

1989 National Bentgrass (Native Soil Green) Test - 1990-93 data

LOCATIONS SUBMITTING DATA FOR 1990-93.....1

NATIONAL BENTGRASS (NATIVE SOIL GREEN) TEST, 1989 - Entries and Sponsors....2

Table A - 1990-93 Locations, Site Descriptions and Management Practices
in the 1989 National Bentgrass (Native Soil Green) Test.....3

Table B - Locations and Data Collected in 1990-93.....3

Table 1 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a
Native Soil Green at Sixteen Locations in the U. S and Canada....5

Table 2 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars For Each
Month Grown on a Native Soil Green at Sixteen Locations
in the U.S and Canada.....6

Table 3 - Ranking of Mean Turfgrass Quality Ratings of Bentgrass Cultivars
Grown on a Native Soil Green at Sixteen Locations in the
U. S and Canada.....7

Table 4 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a
Native Soil Green For Each Year in the U. S and Canada.....8

Table 5 - Ranking of Mean Turfgrass Quality Ratings of Bentgrass Cultivars
Grown on a Native Soil Green For Each Year in the U.S and
Canada.....9

Table 6 - Genetic Color Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....10

Table 7 - Spring Greenup Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....11

Table 8 - Leaf Texture Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....12

Table 9 - Seedling Vigor Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....13

Table 10 - Spring Density Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....14

Table 11 - Summer Density Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....15

Table 12 - Fall Density Ratings of Bentgrass Cultivars Grown on a
Native Soil Green.....16

Table 13 - Percent Living Ground Cover (Spring) Ratings of Bentgrass
Cultivars Grown on a Native Soil Green.....17

CONTENTS (Continued)

Table 14 - Percent Living Ground Cover (Summer) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	18
Table 15 - Percent Living Ground Cover (Fall) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	19
Table 16 - Winter Color Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	20
Table 17 - Thatch Measurements of Bentgrass Cultivars Grown on a Native Soil Green.....	21
Table 18 - Fusarium Patch Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	22
Table 19 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	23
Table 20 - Brown Patch Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	24
Table 21 - Summer Patch Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	25
Table 22 - Pythium Blight Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	26
Table 23 - Pythium Root Rot Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	27
Table 24 - Scalping Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	28
Table 25 - Seedling Damping Off Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	29
Table 26 - Percent Poa Annua (January) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	30
Table 27 - Percent Poa Annua (February) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	31
Table 28 - Percent Poa Annua (April) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	32
Table 29 - Percent Poa Annua (May) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	33
Table 30 - Percent Poa Annua (June) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	34
Table 31 - Percent Poa Annua (July) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	35

CONTENTS (Continued)

Table 32 - Percent Poa Annua (August) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	36
Table 33 - Percent Poa Annua (September) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	37
Table 34 - Percent Poa Annua (October) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	38
Table 35 - Percent Poa Annua (Mean) Ratings of Bentgrass Cultivars Grown on a Native Soil Green.....	39

LOCATIONS SUBMITTING DATA FOR 1990-93

<u>State</u>	<u>Location</u>	<u>Code</u>
Alabama	Auburn	AL1
British Columbia	Agassiz	BC1
California	Santa Clara	CA1
Illinois	Carbondale	IL1
Illinois	Urbana	IL2
Iowa	Ames	IA1
Louisiana	Calhoun	LA2
New Jersey	North Brunswick	NJ1
New Jersey	Martinsville	NJ3
New York	Ithaca	NY1
Ontario	Guelph	ON1
Oregon	Halsey	OR3
Rhode Island	Kingston	RI1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Spokane	WA2

1989 NATIONAL BENTGRASS TEST

(Greens-Native Soil)

Entries and Sponsors

<u>Entry No.</u>	<u>Name</u>	<u>Species</u>	<u>Sponsor</u>
1	BR 1518	A. castellana (dryland bent)	USGA Green Section
2	Carmen	creeping	Advanta Seeds West, Inc.
3	Tracenta	colonial	Advanta Seeds West, Inc.
4	Putter	creeping	Jacklin Seed Co.
5	SR 1020	creeping	Seed Research of OR, Inc.
6	Providence	creeping	Seed Research of OR, Inc.
7	Bardot	colonial	Barenbrug USA
8	Penncross	creeping	Tee-2-Green Corp.
9	Pennlinks	creeping	Tee-2-Green Corp.
10	Egmont	A. capillaris (browntop bent)	Olsen-Fennell Seed Co.
11	Regent (Nomarc 101)	creeping	Barenbrug USA
12	PRO/CUP (Forbes 89-12)	creeping	Forbes Seed & Grain
13	Lopez (WVPB 89-D-15)	creeping	Finelawn Research Corp.
14	National	creeping	Pickseed West, Inc.
15	88.CBE	creeping	International Seeds, Inc.
16	Viper (88.CBL)	creeping	International Seeds, Inc.
17	Cobra	creeping	International Seeds, Inc.
18	Emerald	creeping	International Seeds, Inc.
19	Allure	colonial	Willamette Seed Co.

TABLE A. 1990-1993 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 1989 NATIONAL BENTGRASS (NATIVE SOIL - GREEN) TEST

LOCATIONION	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	SANDY LOAM	4.6-5.5	61-150	0-150	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
BC1	SANDY CLAY LOAM	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
CA1	LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILTY CLAY AND CIAY	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
IL2	SILT LOAM AND SILT	-	-	-	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
LA2	SANDY LOAM	6.1-6.5	61-150	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ3	SILT LOAM AND SILT	6.6-7.0	61-150	501+	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NY1	SANDY LOAM	5.6-6.0	0-60	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
ON1	SANDY LOAM	6.6-7.0	-	-	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
OR3	SILT LOAM AND SILT	4.6-5.5	0-60	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
RI1	SILT LOAM AND SILT	6.6-7.0	151-270	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
VA1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
WA1	SILT LOAM AND SILT	6.1-6.5	0-60	501+	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA2	LOAM	5.6-6.0	0-60	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 1990-1993

LOCATIONION	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 RATING	SPRING GREENUP RATING
AL1	X	X	X	X	X	X	X	X	X	X	X	X	X	
BC1	X					X	X	X	X	X	X	X		
CA1	X	X	X	X	X	X	X	X	X	X	X	X	X	
IA1				X	X	X	X	X	X	X				
IL1			X	X	X	X	X	X	X	X				
IL2				X	X	X	X	X	X	X				
LA2	X			X					X			X	X	
NJ1			X	X	X	X	X	X	X	X	X		X	X
NJ3				X	X	X	X	X	X	X	X		X	X
NY1									X		X			
ON1				X	X	X	X	X	X	X			X	
OR3	X	X	X	X	X	X	X	X	X	X	X	X	X	
RI1				X	X	X	X	X	X	X	X			
VA1				X	X	X	X	X	X	X				
WA1			X	X	X	X	X	X	X	X	X			X
WA2			X	X	X	X	X	X	X	X	X			X

TABLE B. (CONTINUED)

LOCATIONS AND DATA COLLECTED IN 1990-1993

LOCATION	LEAF TEXTURE RATINGG	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	THATCH MEASUREMENTS	FUSARIUM PATCH	DOLLAR SPOT	BROWN PATCH	SUMMER PATCH	PYTHIUM BLIGHT
AL1												X			
BC1											X				
CA1	X		X	X	X	X	X	X		X					
IA1															
IL1														X	X
IL2													X		
LA2		X					X	X							
NJ1												X	X		
NJ3	X		X	X	X							X	X		
NY1		X													
ON1		X		X	X										
OR3	X		X	X	X			X							
RI1												X			
VA1												X	X		
WA1		X									X				
WA2	X	X	X		X				X		X				

TABLE A. (CONTINUED)

LOCATIONS AND DATA COLLECTED IN 1990-1993

LOCATION	SEEDLING DAMPING OFF	SCALPING RATING	PYTHIUM ROOT ROT	PERCENT POA JANUARY	PERCENT POA FEBRUARY	PERCENT POA APRILARY	PERCENT POA MAYILARY	PERCENT POA JUNELARY	PERCENT POA JULYLARY	PERCENT POA AUGUSTRY	PERCENT POA SEPTEMBER	PERCENT POA OCTOBER
AL1												
BC1												
CA1				X	X	X	X	X	X	X	X	X
IA1												
IL1												
IL2						X						
LA2												
NJ1												
NJ3												
NY1			X									
ON1												
OR3		X										
RI1												
VA1												
WA1	X											
WA2												

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A
NATIVE SOIL GREEN AT SIXTEEN LOCATIONS IN THE U.S. AND CANADA
1990-1993 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/															MEAN	
	AL1	BC1	CA1	IA1	IL1	IL2	LA2	NJ1	NJ3	NY1	ON1	OR3	RI1	VA1	WA1		WA2
* PRO/CUP (FORBES 89-12)	4.6	6.3	6.4	6.8	6.6	5.2	5.6	6.7	5.7	7.8	7.4	6.1	5.9	4.7	6.4	6.3	6.2
* PROVIDENCE	4.1	6.0	6.2	5.9	6.3	5.3	5.7	7.0	5.5	7.3	7.6	5.9	6.7	5.0	6.6	6.6	6.1
* VIPER (88.CBL)	4.4	6.1	6.6	6.3	6.4	4.5	5.3	6.6	5.5	7.3	7.4	6.3	5.4	4.8	6.7	6.2	6.0
* LOPEZ (WVPB 89-D-15)	4.6	6.3	6.0	7.2	5.7	5.2	5.3	6.6	5.7	7.0	7.3	5.5	5.5	4.6	6.4	6.3	5.9
* PUTTER 88.CBE	4.0	6.0	6.0	6.5	6.7	5.1	5.4	6.1	5.2	7.0	7.5	5.8	6.2	4.8	6.3	6.5	5.9
* PENNLINKS	4.8	5.9	6.0	6.0	6.4	4.2	5.7	6.4	5.6	6.7	7.4	6.3	5.4	4.9	6.3	6.2	5.9
* PENNLINKS	4.4	6.1	6.7	6.6	6.0	5.2	5.4	6.1	4.7	6.0	7.4	5.8	5.9	5.0	6.4	6.6	5.9
* REGENT (NORMARC 101)	4.6	6.3	6.0	6.5	5.9	4.8	5.6	6.2	5.3	6.7	7.2	5.2	6.0	5.2	6.2	6.1	5.9
* PENNCROSS	4.8	6.5	5.7	6.6	6.1	4.8	5.7	5.8	5.3	7.0	7.1	5.4	5.2	5.1	6.1	6.0	5.8
* COBRA	4.2	6.1	6.2	5.9	6.2	4.6	5.3	6.3	5.2	6.3	7.0	5.9	5.8	5.1	6.5	6.1	5.8
* SR 1020	3.8	6.0	6.8	6.4	6.2	5.0	4.8	6.1	5.6	6.3	7.4	5.8	5.4	4.2	6.3	5.4	5.7
* CARMEN	4.5	6.0	6.3	6.4	6.1	4.3	4.8	5.7	4.6	5.0	6.7	5.3	4.9	4.6	5.6	5.8	5.4
* EMERALD	4.4	6.3	5.2	6.1	5.2	4.8	4.3	4.6	3.9	5.8	6.7	5.1	4.5	3.9	5.6	5.6	5.1
* BARDOT	5.6	6.4	4.6	6.2	4.3	4.3	5.0	4.5	3.3	6.2	7.9	3.7	3.8	4.5	5.3	5.4	5.1
* NATIONAL	4.2	6.1	4.9	5.4	5.6	4.2	4.3	4.5	4.5	5.5	6.6	4.7	5.1	4.5	5.1	5.6	5.0
* EGMONT	5.4	6.0	4.7	4.8	3.5	4.5	4.8	4.1	3.1	5.3	7.7	3.7	5.1	5.1	5.5	4.6	4.9
* TRACENTA	5.5	6.0	4.0	5.6	4.5	3.8	5.0	4.3	3.7	4.8	7.9	3.4	3.7	4.1	5.7	5.3	4.8
ALLURE	5.3	6.2	4.2	4.5	3.7	3.4	4.9	3.0	2.5	3.8	7.5	3.7	3.9	4.2	4.9	4.9	4.4
BR 1518	5.4	5.4	3.6	4.7	4.0	3.0	5.2	2.6	2.6	4.5	7.3	2.2	3.9	3.8	4.6	3.2	4.1
LSD VALUE	0.8	0.3	0.5	0.9	1.0	0.5	0.7	0.4	0.8	1.2	0.7	0.4	0.9	0.6	0.9	0.6	0.2

* COMMERCIALY AVAILABLE IN THE USA IN 1994

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 2. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN ON A NATIVE SOIL GREEN AT SIXTEEN LOCATIONS IN THE U.S. AND CANADA 1990-1993 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PRO/CUP (FORBES 89-12)	5.3	5.0	6.1	6.0	6.0	6.3	6.2	6.0	6.2	6.1	5.6	5.6	6.1
PROVIDENCE	5.0	4.7	6.2	6.0	6.3	6.2	6.3	5.9	6.1	6.1	5.7	5.1	6.1
VIPER (88.CBL)	5.3	5.4	6.4	5.9	5.9	5.9	5.9	5.7	6.0	6.0	5.8	5.5	5.9
LOPEZ (WVPB 89-D-15)	5.3	4.4	5.8	5.9	6.0	6.0	5.8	5.7	5.9	5.9	5.4	5.2	5.9
FUTTER	5.1	4.8	5.5	5.6	6.1	6.2	5.9	5.8	5.9	5.9	5.5	4.9	5.9
BENNLINKS	5.4	5.3	6.0	5.7	6.0	5.9	6.0	5.9	5.8	5.9	5.6	5.5	5.9
88.CBE	5.4	5.3	6.2	5.9	5.9	6.0	5.8	5.7	6.0	6.0	5.5	5.5	5.9
REGENT (NORMARC 101)	5.2	4.7	5.8	5.8	5.8	5.8	5.9	5.8	5.7	5.9	5.5	5.2	5.8
COBRA	5.2	5.3	6.1	5.8	5.8	5.8	5.8	5.6	5.7	5.8	5.7	5.4	5.8
BENNCROSS	5.2	4.8	5.6	5.7	5.7	5.7	5.8	5.6	5.6	5.7	5.4	5.2	5.7
SR 1020	5.6	5.1	6.3	5.5	5.8	5.8	5.7	5.5	5.8	5.8	5.3	5.1	5.7
CARMEN	5.1	4.8	5.5	5.4	5.6	5.6	5.6	5.3	5.4	5.5	4.8	4.8	5.4
EMERALD	5.0	4.8	4.9	4.8	4.9	4.8	5.1	5.2	5.1	5.2	4.7	4.7	5.0
NATIONAL	4.6	4.3	4.6	5.0	4.8	4.9	5.0	5.0	5.2	5.3	4.7	4.4	5.0
BARDOT	4.4	4.6	4.8	5.1	5.1	4.6	4.5	4.7	4.6	4.6	4.6	4.8	4.8
EGMONT	4.9	4.4	4.4	4.6	4.6	4.4	4.6	4.7	4.6	4.6	4.9	4.6	4.7
TRACENTA	4.4	4.0	4.2	5.1	4.7	4.5	4.2	4.4	4.5	4.5	4.5	4.8	4.7
ALLURE	4.6	4.1	4.3	4.5	4.1	3.8	3.8	4.2	4.1	4.2	4.4	4.8	4.2
HR 1518	4.3	3.4	3.4	3.7	3.7	3.4	3.6	3.8	3.9	3.8	3.9	4.4	3.8
LSD VALUE	0.7	0.8	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.8	0.3

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).

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A NATIVE SOIL GREEN AT SIXTEEN LOCATIONS IN THE U.S. AND CANADA 1/ 1990-1993 DATA

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

NAME	AL1	BC1	CA1	IA1	IL1	IL2	LA2	NJ1	NJ3	NY1	ON1	OR3	RI1	VA1	WA1	WA2	MEAN
PRO/CUP (FORBES 89-12)	8	5.0	4	2	2	2	4.5	2	2	1.0	10.5	3	4	10	4	5	1
PROVIDENCE	17	15.5	6	13	5	1	2.0	1	5	2.5	4.0	4	1	6	2	1	2
VIPER (88.CBL)	12	9.0	3	9	4	11	10.0	4	6	2.5	7.5	1	10	8	1	6	3
LOPEZ (WVPB 89-D-15)	10	3.0	10	1	12	3	8.5	3	1	5.0	12.5	9	7	11	6	4	4
PUTTER	18	15.5	11	6	1	5	6.5	10	10	5.0	5.0	8	2	9	9	3	5
88.CBE	6	18.0	9	12	3	15	2.0	5	4	7.5	7.5	2	9	7	8	7	6
PENNLINKS	13	9.0	2	3	10	4	6.5	9	11	12.0	9.0	7	5	5	5	2	7
REGENT (NORMARC 101)	9	5.0	8	5	11	9	4.5	7	8	7.5	14.0	12	3	1	10	9	8
PENNCROSS	7	1.0	12	4	9	7	2.0	11	7	5.0	15.0	10	11	4	11	10	9
COBRA	15	9.0	7	14	6	10	8.5	6	9	9.5	16.0	5	6	3	3	8	10
SR 1020	19	12.5	1	7	7	6	17.0	8	3	9.5	10.5	6	8	15	7	15	11
CARMEN	11	15.5	5	8	8	14	15.5	12	12	16.0	17.5	11	14	12	14	11	12
EMERALD	14	5.0	13	11	14	8	18.5	13	14	13.0	17.5	13	15	18	13	12	13
BARDOT	1	2.0	16	10	16	13	12.5	15	16	11.0	1.0	15	18	14	16	14	14
NATIONAL	16	11.0	14	16	13	16	18.5	14	13	14.0	19.0	14	13	13	17	13	15
EGMONT	4	12.5	15	17	19	12	15.5	17	17	15.0	3.0	17	12	2	15	18	16
TRACENTA	2	15.5	18	15	15	17	12.5	16	15	17.0	2.0	18	19	17	12	16	17
ALLURE	5	7.0	17	19	18	18	14.0	18	19	19.0	6.0	16	16	16	18	17	18
BR 1518	3	19.0	19	18	17	19	11.0	19	18	18.0	12.5	19	17	19	19	19	19

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. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A NATIVE SOIL GREEN FOR EACH YEAR IN THE U.S. 1990-1993 DATA

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

NAME	1990 MEAN	1991 MEAN	1992 MEAN	1993 MEAN	1990-93 MEAN
PRO/CUP (FORBES 89-12)	6.12	5.97	6.11	6.16	6.16
PROVIDENCE	5.98	6.06	6.08	6.21	6.10
VIPER (88.CBL)	5.89	5.87	5.94	6.05	5.99
LOPEZ (WVPB 89-D-15)	5.92	5.71	5.88	6.13	5.95
PUTTER	5.79	5.75	5.88	6.13	5.93
88.CBE	5.77	5.81	5.93	5.90	5.90
PENNLINKS	5.65	5.72	6.00	6.07	5.88
REGENT (NORMARC 101)	5.62	5.69	5.86	6.05	5.86
PENNCROSS	5.74	5.58	5.74	5.80	5.82
COBRA	5.65	5.74	5.74	5.96	5.80
SR 1020	5.47	5.68	5.82	5.86	5.73
CARMEN	5.06	5.38	5.48	5.63	5.40
EMERALD	5.06	4.90	5.22	4.89	5.12
BARDOT	5.38	4.87	4.72	4.34	5.06
NATIONAL	4.98	4.90	5.00	4.99	5.04
EGMONT	5.36	4.55	4.57	4.34	4.87
TRACENTA	5.35	4.62	4.52	4.21	4.83
ALLURE	4.93	4.12	3.93	3.86	4.41
BR 1518	4.52	3.55	3.66	3.72	4.12
LSD VALUE	0.26	0.22	0.27	0.31	0.19

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 5. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A NATIVE SOIL GREEN FOR EACH YEAR IN THE U.S. 1/
1990-1993 DATA

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

NAME	1990 MEAN	1991 MEAN	1992 MEAN	1993 MEAN	1990-93 MEAN
PRO/CUP (FORBES 89-12)	1	2	1	2	1
PROVIDENCE	2	1	2	1	2
VIPER (88.CBL)	4	3	4	7	3
LOPEZ (WVPB 89-D-15)	3	8	6	3	4
PUTTER	5	5	7	4	5
88.CBE	6	4	5	9	6
PENNLINKS	9	7	3	5	7
REGENT (NORMARC 101)	10	9	8	6	8
PENNCROSS	7	11	11	11	9
COBRA	8	6	10	8	10
SR 1020	11	10	9	10	11
CARMEN	16	12	12	12	12
EMERALD	15	13	13	14	13
BARDOT	12	15	15	15	14
NATIONAL	17	14	14	13	15
EGMONT	13	17	16	16	16
TRACENTA	14	16	17	17	17
ALLURE	18	18	18	18	18
BR 1518	19	19	19	19	19

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 4.

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 6. GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN
1990-1993 DATA

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

NAME	AL1	CA1	LA2	NJ1	NJ3	ON1	OR3	MEAN
PRO/CUP (FORBES 89-12)	6.0	7.3	7.3	7.3	5.6	6.5	7.3	6.8
88.CBE	5.0	6.7	7.0	8.0	6.0	6.7	7.3	6.7
VIPER (88.CBL)	4.3	7.7	7.0	7.7	5.8	6.7	7.2	6.6
LOPEZ (WVPB 89-D-15)	5.7	7.0	7.3	7.7	5.3	6.2	7.0	6.6
PROVIDENCE	4.7	7.0	8.0	6.7	5.7	5.5	7.0	6.4
TRACENTA	6.3	5.7	6.7	6.0	4.4	6.3	6.0	5.9
COBRA	4.0	6.7	7.0	6.7	5.5	4.8	6.7	5.9
PENNCROSS	5.0	6.0	7.0	6.3	5.3	4.5	6.5	5.8
REGENT (NORMARC 101)	4.0	6.3	7.3	5.7	5.3	5.2	6.5	5.8
SR 1020	4.0	6.7	7.0	6.0	5.8	4.0	6.5	5.7
PENNLINKS	4.7	6.7	7.0	5.3	4.9	4.7	6.5	5.7
BARDOT	6.3	5.3	7.0	4.7	4.1	5.3	5.7	5.5
CARMEN	5.0	6.7	6.7	5.3	4.8	3.2	5.8	5.4
PUTTER	3.7	6.0	7.0	4.7	5.4	4.0	6.5	5.3
BR 1518	4.7	5.7	6.3	5.3	3.3	5.3	6.3	5.3
ALLURE	6.3	5.7	6.3	3.0	3.0	3.8	5.5	4.8
NATIONAL	4.3	6.3	6.7	4.0	4.7	2.0	5.5	4.8
EGMONT	5.7	4.3	6.3	3.3	3.5	4.5	5.5	4.7
EMERALD	4.0	5.0	6.3	4.0	4.3	2.7	5.5	4.5
LSD VALUE	1.4	1.5	0.7	1.3	0.7	1.8	0.8	0.5

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).

TABLE 7. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	NJ1	NJ3	WA1	WA2	MEAN
BARDOT	8.0	6.0	4.0	8.3	6.6
EGMONT	8.0	5.7	5.0	7.7	6.6
ALLURE	8.0	5.7	4.3	8.0	6.5
TRACENTA	8.0	5.7	4.0	7.7	6.3
NATIONAL	6.7	5.0	4.7	8.3	6.2
BR 1518	8.0	4.7	5.0	6.7	6.1
EMERALD	6.3	4.0	4.7	8.3	5.8
REGENT (NORMARC 101)	4.7	5.0	4.7	8.0	5.6
PROVIDENCE	4.3	4.7	5.0	8.0	5.5
PUTTER	4.3	4.7	4.7	8.3	5.5
PENNLINKS	4.3	4.3	4.7	8.0	5.3
PENNCROSS	3.0	4.7	4.7	8.3	5.2
88.CBE	3.3	5.3	4.0	8.0	5.2
LOPEZ (WVPB 89-D-15)	3.7	5.0	4.0	8.0	5.2
SR 1020	2.3	5.3	4.7	8.3	5.2
VIPER (88.CBL)	3.0	5.7	4.0	7.7	5.1
COBRA	3.3	4.3	4.3	8.0	5.0
PRO/CUP (FORBES 89-12)	2.3	4.0	4.3	7.7	4.6
CARMEN	2.0	3.7	4.7	7.7	4.5
LSD VALUE	1.0	0.9	0.8	1.1	0.5

1/ SPRING GREENUP RATED AT "NJ1" IN 1991, AT "NJ3" IN 1991 & 1992, AT "WA1" IN 1993 AND "WA2" IN 1992.

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

TABLE 8. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN
1990-1993 DATA

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

NAME	CA1	NJ3	OR3	WA2	MEAN
SR 1020	7.3	6.4	7.0	6.2	6.7
PRO/CUP (FORBES 89-12)	7.0	6.3	7.3	6.2	6.7
PROVIDENCE	7.0	5.8	6.7	6.2	6.4
EGMONT	7.7	5.3	5.3	7.2	6.4
VIPER (88.CBL)	7.0	6.2	6.3	5.8	6.3
PENNLINKS	6.7	5.5	6.7	6.3	6.3
BARDOT	7.0	5.4	5.0	7.7	6.3
COBRA	6.7	6.0	6.7	5.7	6.3
CARMEN	7.0	5.7	6.0	6.2	6.2
88.CBE	6.7	6.3	6.0	5.8	6.2
PUTTER	6.7	5.8	6.0	6.2	6.1
LOPEZ (WVPB 89-D-15)	6.7	5.8	6.3	5.7	6.1
REGENT (NORMARC 101)	7.0	5.8	5.3	5.8	6.0
TRACENTA	6.3	5.1	4.3	7.5	5.8
NATIONAL	6.0	5.0	5.7	6.5	5.8
PENNCROSS	6.3	5.5	6.0	4.8	5.7
ALLURE	6.3	4.6	4.0	7.2	5.5
EMERALD	6.0	5.0	5.3	5.3	5.4
BR 1518	6.3	3.8	3.0	2.5	3.9
LSD VALUE	0.9	0.8	1.1	1.3	0.5

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).

TABLE 9. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	LA2	NY1	ON1	WA1	WA2	MEAN
EMERALD	7.0	8.0	8.3	6.0	6.7	7.2
PUTTER	7.0	8.0	7.7	6.0	7.3	7.2
PRO/CUP (FORBES 89-12)	7.0	7.3	7.3	5.7	6.7	6.8
PENNCROSS	7.0	7.0	6.7	5.7	7.3	6.7
LOPEZ (WVPB 89-D-15)	6.7	8.0	6.0	6.0	6.3	6.6
PENNLINKS	7.0	7.0	6.3	5.0	7.0	6.5
PROVIDENCE	7.0	6.3	7.0	5.7	6.0	6.4
NATIONAL	6.3	6.0	8.0	5.7	5.7	6.3
REGENT (NORMARC 101)	7.0	5.3	8.3	5.0	5.7	6.3
COBRA	6.7	6.0	5.0	6.0	5.7	5.9
EGMONT	7.0	4.0	7.0	5.3	5.7	5.8
SR 1020	6.3	6.3	5.3	5.3	5.3	5.7
VIPER (88.CBL)	6.7	5.7	5.3	5.0	5.3	5.6
88.CBE	6.7	5.7	5.0	4.7	5.3	5.5
TRACENTA	6.7	4.0	4.0	5.0	7.0	5.3
BARDOT	6.7	3.7	4.7	4.7	6.3	5.2
BR 1518	7.0	4.3	5.3	5.7	3.7	5.2
CARMEN	7.0	3.3	3.3	5.3	5.7	4.9
ALLURE	6.7	3.7	3.7	4.7	5.3	4.8
LSD VALUE	0.6	2.3	2.0	1.5	1.7	0.8

1/ SEEDLING VIGOR RATED IN 1990 ONLY.

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

TABLE 10. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN
1990-1993 DATA

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

NAME	CA1	NJ3	OR3	WA2	MEAN
PROVIDENCE	6.7	6.8	5.3	8.7	6.9
SR 1020	6.7	7.0	6.0	7.7	6.8
88.CBE	6.3	6.3	5.3	8.7	6.7
PRO/CUP (FORBES 89-12)	6.5	7.0	5.7	7.3	6.6
PUTTER	6.3	6.5	5.3	8.0	6.5
LOPEZ (WVPB 89-D-15)	6.3	6.0	5.7	8.0	6.5
VIPER (88.CBL)	6.3	6.3	5.3	8.0	6.5
REGENT (NORMARC 101)	6.2	6.3	5.3	8.0	6.5
COBRA	6.3	6.0	5.3	8.0	6.4
CARMEN	6.3	6.0	5.7	7.3	6.3
PENNCROSS	6.2	6.0	5.3	7.7	6.3
PENNLINKS	6.3	5.2	5.3	7.7	6.1
EMERALD	5.7	5.0	5.7	7.0	5.8
NATIONAL	5.5	5.0	4.3	7.3	5.5
BARDOT	5.8	4.8	4.3	7.0	5.5
TRACENTA	5.3	5.0	3.0	7.0	5.1
EGMONT	6.0	4.8	2.7	6.0	4.9
ALLURE	5.3	3.5	3.0	7.0	4.7
BR 1518	4.8	3.5	2.3	6.0	4.2
LSD VALUE	0.7	1.1	0.9	0.7	0.5

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).

TABLE 11. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN
1990-1993 DATA

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

NAME	CA1	NJ3	ON1	OR3	MEAN
PRO/CUP (FORBES 89-12)	7.5	6.4	9.0	5.7	7.2
VIPER (88.CBL)	7.3	6.3	9.0	5.7	7.1
SR 1020	7.5	6.1	8.0	6.0	6.9
PROVIDENCE	7.3	6.0	8.7	5.3	6.8
COBRA	6.8	5.7	9.0	5.7	6.8
88.CBE	6.8	6.0	9.0	5.3	6.8
PUTTER	6.8	5.8	9.0	5.3	6.7
LOPEZ (WVPB 89-D-15)	6.8	5.7	8.7	5.7	6.7
REGENT (NORMARC 101)	6.8	5.6	9.0	5.3	6.7
PENNCROSS	6.7	5.7	9.0	5.3	6.7
CARMEN	7.2	5.2	8.0	5.7	6.5
PENNLINKS	6.8	5.2	8.7	5.3	6.5
EMERALD	6.2	4.8	9.0	6.0	6.5
NATIONAL	6.3	5.1	9.0	4.3	6.2
BARDOT	5.5	3.7	8.3	4.3	5.5
EGMONT	5.7	3.3	9.0	2.7	5.2
TRACENTA	5.2	3.4	8.3	3.0	5.0
ALLURE	5.3	2.3	8.7	3.0	4.8
BR 1518	4.5	2.1	8.7	3.7	4.7
LSD VALUE	1.5	0.9	0.7	1.2	0.6

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) .

TABLE 12. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN
1990-1993 DATA

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

NAME	CA1	NJ3	ON1	OR3	WA2	MEAN
PRO/CUP (FORBES 89-12)	7.3	6.4	8.7	7.3	9.0	7.8
88.CBE	7.2	6.3	8.7	7.3	9.0	7.7
VIPER (88.CBL)	7.2	6.2	8.7	7.3	9.0	7.7
PROVIDENCE	7.3	5.6	8.3	7.7	9.0	7.6
REGENT (NORMARC 101)	7.2	5.7	9.0	7.0	8.7	7.5
SR 1020	7.5	6.3	7.7	7.0	8.7	7.4
COBRA	7.3	5.8	8.0	7.0	8.7	7.4
PENNLINKS	7.3	5.1	8.3	7.0	9.0	7.4
LOPEZ (WVPB 89-D-15)	7.2	5.7	8.0	7.0	8.7	7.3
NATIONAL	6.5	5.0	9.0	7.0	8.7	7.2
PUTTER	7.2	5.3	9.0	6.3	7.7	7.1
PENNCROSS	7.2	5.2	8.7	6.0	8.3	7.1
EMERALD	6.8	4.9	9.0	7.0	7.7	7.1
EGMONT	7.0	4.6	8.7	6.0	7.3	6.7
BARDOT	6.5	4.4	7.0	6.0	8.0	6.4
CARMEN	7.3	4.2	6.7	5.3	8.3	6.4
TRACENTA	6.7	4.4	6.7	5.3	8.0	6.2
ALLURE	7.0	3.0	7.3	5.0	7.7	6.0
BR 1518	6.5	3.1	7.7	4.3	6.7	5.7
LSD VALUE	0.6	0.9	1.2	0.6	0.9	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 13. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA1
88.CBE	99.0
ALLURE	99.0
CARMEN	99.0
COBRA	99.0
EGMONT	99.0
EMERALD	99.0
FENNCROSS	99.0
FENNLINKS	99.0
PRO/CUP (FORBES 89-12)	99.0
SR 1020	99.0
VIPER (88.CBL)	99.0
NATIONAL	97.7
LOPEZ (WVPB 89-D-15)	96.0
PROVIDENCE	96.0
FUTTER	96.0
REGENT (NORMARC 101)	96.0
BARDOT	95.0
TRACENTA	94.3
ER 1518	91.3
LSD VALUE	5.6

1/ PERCENT LIVING GROUND COVER (SPRING) RATED IN 1991 ONLY.

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

TABLE 14. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA1	LA2	MEAN
BR 1518	96.3	61.7	79.0
EGMONT	99.0	58.3	78.7
88.CBE	99.0	56.7	77.8
COBRA	99.0	56.7	77.8
REGENT (NORMARC 101)	99.0	55.0	77.0
PRO/CUP (FORBES 89-12)	99.0	53.3	76.2
PENNLINKS	99.0	51.7	75.3
PENNCROSS	99.0	50.0	74.5
ALLURE	99.0	48.3	73.7
VIPER (88.CBL)	99.0	45.0	72.0
BARDOT	97.7	45.0	71.3
LOPEZ (WVPB 89-D-15)	99.0	43.3	71.2
PUTTER	99.0	43.3	71.2
TRACENTA	97.7	38.3	68.0
CARMEN	99.0	35.0	67.0
PROVIDENCE	99.0	35.0	67.0
SR 1020	99.0	31.7	65.3
EMERALD	99.0	21.7	60.3
NATIONAL	99.0	10.0	54.5
LSD VALUE	1.5	27.3	13.7

1/ PERCENT LIVING GROUND COVER (SUMMER) RATED AT "CA1" IN 1991 AND AT "LA2" 1990.

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

TABLE 15. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1	LA2	OR3	MEAN
PRO/CUP (FORBES 89-12)	95.3	86.7	70.0	84.0
REGENT (NORMARC 101)	96.2	85.0	70.0	83.7
COBRA	96.7	83.3	66.7	82.2
PENNCROSS	93.2	86.7	66.7	82.2
BR 1518	86.3	83.3	76.7	82.1
88.CBE	94.0	81.7	66.7	80.8
VIPER (88.CBL)	96.5	75.0	70.0	80.5
PROVIDENCE	89.5	80.0	70.0	79.8
ALLURE	91.8	80.0	66.7	79.5
LOPEZ (WVPB 89-D-15)	96.8	78.3	63.3	79.5
PENNLINKS	93.0	78.3	66.7	79.3
EGMONT	92.8	76.7	66.7	78.7
TRACENTA	88.8	81.7	63.3	77.9
BARDOT	90.5	81.7	60.0	77.4
CARMEN	93.7	66.7	70.0	76.8
PUTTER	93.7	63.3	73.3	76.8
EMERALD	95.2	58.3	66.7	73.4
SR 1020	95.7	56.7	60.0	70.8
NATIONAL	95.3	46.7	70.0	70.7
LSD VALUE	7.7	20.5	12.6	7.0

1/ PERCENT LIVING GROUND COVER (FALL) RATED AT "CA1" IN 1991 & 1993 AND AT "LA2" & "OR3" 1990.

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

TABLE 16. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	WA2
PROVIDENCE	6.7
PENNCROSS	6.0
PENNLINKS	6.0
COBRA	5.7
PRO/CUP (FORBES 89-12)	5.7
PUTTER	5.7
ALLURE	5.3
EMERALD	5.3
EGMONT	5.0
REGENT (NORMARC 101)	5.0
LOPEZ (WVPB 89-D-15)	4.7
VIPER (88.CBL)	4.7
88.CBE	4.3
NATIONAL	4.3
SR 1020	4.3
BARDOT	4.0
BR 1518	4.0
TRACENTA	4.0
CARMEN	3.3
LSD VALUE	1.7

1/ WINTER COLOR RATED IN 1990 ONLY.

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

TABLE 17. THATCH MEASUREMENTS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

THATCH MEASUREMENTS IN MILLIMETERS 2/

NAME	CA1
EMERALD	39.3
PRO/CUP (FORBES 89-12)	38.8
LOPEZ (WVPB 89-D-15)	38.2
PENNLINKS	38.0
SR 1020	37.3
PUTTER	37.0
VIPER (88.CBL)	37.0
CARMEN	36.7
REGENT (NORMARC 101)	36.7
88.CBE	36.5
PENNCROSS	35.3
PROVIDENCE	35.0
EGMONT	34.8
NATIONAL	34.3
BARDOT	34.2
TRACENTA	33.0
COBRA	32.8
ALLURE	31.7
ER 1518	21.2
LSD VALUE	10.4

1/ THATCH MEASUREMENTS RATED IN 1992 AND 1993.

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

TABLE 18. FUSARIUM PATCH RATINGS OF BENIGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	BC1	WA1	WA2	MEAN
88.CBE	9.0	4.5	9.0	7.5
COBRA	9.0	4.7	8.3	7.3
NATIONAL	9.0	4.7	8.3	7.3
EMERALD	9.0	4.2	8.3	7.2
LOPEZ (WVPB 89-D-15)	9.0	4.0	8.3	7.1
PROVIDENCE	9.0	4.3	7.7	7.0
VIPER (88.CBL)	9.0	3.8	8.0	6.9
PENNLINKS	9.0	4.5	7.3	6.9
PUTTER	9.0	4.5	7.3	6.9
BR 1518	8.7	4.3	7.7	6.9
REGENT (NORMARC 101)	9.0	4.3	7.3	6.9
ALLURE	8.3	4.2	8.0	6.8
PENNCROSS	9.0	4.5	7.0	6.8
PRO/CUP (FORBES 89-12)	9.0	4.5	7.0	6.8
BARDOT	9.0	4.0	7.3	6.8
TRACENTA	7.3	4.0	8.7	6.7
CARMEN	9.0	4.3	6.3	6.6
SR 1020	9.0	3.3	6.0	6.1
EGMONT	7.7	3.7	6.7	6.0
LSD VALUE	0.7	3.4	1.6	1.8

1/ FUSARIUM PATCH RATED AT "BC1" IN 1990, AT "WA1" IN 1992 & 1993 AND AT "WA2" IN 1993.

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

TABLE 19. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	AL1	NJ1	NJ3	RI1	VA1	MEAN
EGMONT	7.7	8.0	5.0	8.8	8.5	7.6
BR 1518	8.3	6.7	4.7	7.2	7.7	6.9
TRACENTA	6.3	7.0	4.7	7.5	8.3	6.8
ALLURE	7.3	7.0	4.7	7.8	6.7	6.7
BARDOT	6.0	7.3	4.3	7.8	7.5	6.6
88.CBE	5.3	5.7	4.3	6.7	7.2	5.8
PROVIDENCE	5.0	5.7	4.3	7.3	6.8	5.8
NATIONAL	5.7	5.3	4.7	6.3	6.7	5.7
REGENT (NORMARC 101)	4.7	5.3	4.3	7.2	7.2	5.7
PENNLINKS	5.0	4.3	4.3	7.2	7.7	5.7
COBRA	5.3	4.7	4.7	6.5	6.7	5.6
PENNCROSS	5.3	4.0	4.0	7.5	6.8	5.5
VIPER (88.CBL)	5.7	5.0	4.0	5.7	6.5	5.4
LOPEZ (WVPB 89-D-15)	5.0	4.3	4.7	6.2	5.8	5.2
PUTTER	4.0	4.7	4.0	6.8	5.8	5.1
EMERALD	5.0	5.7	3.7	5.5	5.0	5.0
PRO/CUP (FORBES 89-12)	4.7	2.7	4.3	5.7	5.8	4.6
CARMEN	5.3	3.0	3.3	4.7	5.5	4.4
SR 1020	2.7	3.3	3.7	5.3	3.0	3.6
LSD VALUE	1.5	2.1	1.3	1.0	2.1	0.8

1/ DOLLAR SPOT RATED AT "AL" & "NJ1" IN 1991, AT "NJ3" IN 1990, AT "RI1" IN 1992 AND AT "VA1" IN 1992 & 1993.

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

TABLE 20. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	IL2	NJ1	NJ3	VA1	MEAN
LOPEZ (WVPB 89-D-15)	9.0	7.7	6.3	4.8	7.0
VIPER (88.CBL)	9.0	7.8	5.3	5.0	6.8
PRO/CUP (FORBES 89-12)	9.0	7.2	6.3	4.0	6.6
NATIONAL	9.0	6.3	6.3	4.5	6.5
REGENT (NORMARC 101)	9.0	7.0	5.0	5.0	6.5
SR 1020	9.0	6.5	4.3	6.0	6.5
COBRA	9.0	7.0	5.0	4.7	6.4
EMERALD	8.7	7.0	4.7	4.8	6.3
CARMEN	9.0	6.2	4.7	5.2	6.3
PENNCROSS	9.0	6.7	4.7	4.7	6.3
88.CBE	9.0	7.0	5.0	4.0	6.3
PROVIDENCE	8.7	8.0	3.7	4.7	6.3
PUTTER	9.0	7.0	3.0	5.8	6.2
PENNLINKS	9.0	7.2	4.0	4.2	6.1
EGMONT	7.3	3.2	4.0	6.2	5.2
ALLURE	7.7	2.8	4.7	4.8	5.0
BARDOT	5.7	2.8	4.0	5.8	4.6
TRACENTA	6.5	3.2	2.3	5.7	4.4
BR 1518	7.3	3.2	2.3	4.7	4.4
LSD VALUE	1.2	1.6	2.6	2.9	1.1

1/ BROWN PATCH RATED AT "IL2" IN 1992 & 1993, AT "NJ1" IN 1990 & 1991, AT "NJ3" IN 1990 AND AT "VA1" IN 1991 & 1993.

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

TABLE 21. SUMMER PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	IL1
SR 1020	9.0
CARMEN	8.7
PUTTER	8.7
TRACENTA	8.7
ALLURE	8.5
BARDOT	8.3
BR 1518	8.3
PRO/CUP (FORBES 89-12)	7.7
REGENT (NORMARC 101)	7.7
PENNLINKS	7.3
PENNCROSS	7.0
88.CBE	6.7
EGMONT	6.3
PROVIDENCE	6.3
EMERALD	6.0
LOPEZ (WVPB 89-D-15)	6.0
VIPER (88.CBL)	6.0
NATIONAL	5.7
COBRA	4.7
LSD VALUE	4.1

1/ SUMMER PATCH RATED IN 1993 ONLY.

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

TABLE 22. PYTHIUM BLIGHT RATINGS OF BENIGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

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

NAME	IL1
88.CBE	6.0
BR 1518	4.3
COBRA	4.3
EMERALD	4.3
PRO/CUP (FORBES 89-12)	4.3
PUTTER	4.3
TRACENTA	4.0
NATIONAL	3.7
VIPER (88.CBL)	3.7
BARDOT	3.3
PENNCROSS	3.3
PROVIDENCE	3.3
REGENT (NORMARC 101)	3.3
ALLURE	3.0
CARMEN	3.0
LOPEZ (WVPB 89-D-15)	3.0
SR 1020	3.0
PENNLINKS	2.7
EGMONT	2.0
LSD VALUE	2.2

1/ PYTHIUM BLIGHT RATED IN 1991 ONLY.

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

TABLE 23. PYTHIUM ROOT ROT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PYTHIUM ROOT ROT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NY1
TRACENTA	8.0
COBRA	7.3
EGMONT	7.3
VIPER (88.CBL)	7.3
PENNCROSS	7.0
PRO/CUP (FORBES 89-12)	7.0
PROVIDENCE	7.0
SR 1020	7.0
PENNLINKS	6.7
EMERALD	6.0
REGENT (NORMARC 101)	6.0
BR 1518	5.7
LOPEZ (WVPB 89-D-15)	5.7
NATIONAL	5.7
PUTTER	5.7
BARDOT	5.3
88.CBE	5.0
CARMEN	4.7
ALLURE	4.3
LSD VALUE	3.2

1/ PYTHIUM ROOT ROT RATED IN 1990 ONLY.

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

TABLE 24. SCALPING RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

SCALPING RATINGS 1-9; 9=NONE 2/

NAME	OR3
LOPEZ (WVPB 89-D-15)	8.3
EMERALD	7.7
PENNCROSS	7.7
VIPER (88.CBL)	7.7
88.CBE	7.3
COBRA	7.3
PENNLINKS	7.3
PRO/CUP (FORBES 89-12)	7.3
PUTTER	7.3
CARMEN	7.0
PROVIDENCE	7.0
SR 1020	7.0
ALLURE	6.7
BARDOT	6.7
NATIONAL	6.7
REGENT (NORMARC 101)	6.7
TRACENTA	6.7
BR 1518	5.7
EGMONT	5.7
LSD VALUE	1.1

1/ SCALPING RATED IN 1990 ONLY.

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

TABLE 25. SEEDLING DAMPING OFF RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

DAMPING OFF RATINGS 1-9; 9=NO DISEASE 2/

NAME	WA1
BARDOT	7.0
NATIONAL	6.3
REGENT (NORMARC 101)	4.7
EMERALD	4.3
PENNLINKS	4.3
PRO/CUP (FORBES 89-12)	4.3
CARMEN	4.0
EGMONT	4.0
ALLURE	3.7
BR 1518	3.7
PUTTER	3.7
TRACENTA	3.7
VIPER (88.CBL)	3.7
88.CBE	3.3
COBRA	3.3
LOPEZ (WVPB 89-D-15)	3.3
SR 1020	3.3
PROVIDENCE	3.0
PENNCROSS	2.3
LSD VALUE	3.3

1/ SEEDLING DAMPING OFF RATED IN 1990 ONLY.

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

TABLE 26. PERCENT POA ANNUA (JANUARY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	74.0
BARDOT	71.0
NATIONAL	55.7
TRACENTA	50.7
ALLURE	43.3
EMERALD	35.3
LOPEZ (WVPB 89-D-15)	29.0
PENNCROSS	26.0
EGMONT	25.0
88.CBE	15.0
REGENT (NORMARC 101)	13.3
PROVIDENCE	11.3
COBRA	11.0
FUTTER	11.0
PENNLINKS	10.3
PRO/CUP (FORBES 89-12)	9.3
CARMEN	7.7
VIPER (88.CBL)	7.0
SR 1020	4.3
LSD VALUE	28.1

1/ PERCENT POA ANNUA (JANUARY) RATED IN 1993 ONLY.

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

TABLE 27. PERCENT POA ANNUA (FEBRUARY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	89.3
BARDOT	77.0
ALLURE	71.7
TRACENTA	69.3
EGMONT	65.3
EMERALD	56.3
NATIONAL	47.0
PENNCROSS	41.7
LOPEZ (WVPB 89-D-15)	40.3
PENNLINKS	24.0
88.CBE	19.0
PRO/CUP (FORBES 89-12)	18.0
COBRA	17.0
CARMEN	16.7
VIPER (88.CBL)	16.3
FUTTER	12.0
PROVIDENCE	11.3
REGENT (NORMARC 101)	8.7
SR 1020	5.7
LSL VALUE	34.3

1/ PERCENT POA ANNUA (FEBRUARY) RATED IN 1993 ONLY.

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

TABLE 28. PERCENT POA ANNUA (APRIL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1	IL2	MEAN
BR 1518	80.3	29.0	54.7
ALLURE	75.7	26.7	51.2
TRACENTA	72.7	23.3	48.0
BARDOT	69.0	25.0	47.0
NATIONAL	59.3	20.0	39.7
EGMONT	56.7	13.3	35.0
EMERALD	40.3	10.0	25.2
PENNCROSS	36.7	9.3	23.0
LOPEZ (WVPB 89-D-15)	30.3	8.0	19.2
88.CBE	24.7	13.3	19.0
PUTTER	28.7	9.0	18.8
VIPER (88.CBL)	20.3	15.0	17.7
PENNLINKS	27.7	5.7	16.7
COBRA	21.0	10.7	15.8
CARMEN	19.3	11.7	15.5
PRO/CUP (FORBES 89-12)	25.3	5.0	15.2
REGENT (NORMARC 101)	18.0	7.3	12.7
PROVIDENCE	17.0	7.7	12.3
SR 1020	7.7	8.0	7.8
LSD VALUE	25.4	11.3	13.9

1/ PERCENT POA ANNUA (APRIL) RATED IN 1993 ONLY.

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

TABLE 29. PERCENT POA ANNUA (MAY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
TRACENTA	69.8
ER 1518	69.3
ALLURE	66.5
BARDOT	56.7
NATIONAL	53.5
EGMONT	45.0
EMERALD	40.3
PENNCROSS	28.0
LOPEZ (WVPB 89-D-15)	24.8
PENNLINKS	18.0
88.CBE	16.3
REGENT (NORMARC 101)	15.5
PRO/CUP (FORBES 89-12)	13.0
FUTTER	13.0
CARMEN	12.8
VIPER (88.CBL)	11.3
COBRA	10.8
PROVIDENCE	10.7
SR 1020	6.3
LSD VALUE	17.9

1/ PERCENT POA ANNUA (MAY) RATED IN 1992 & 1993.

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

TABLE 30. PERCENT POA ANNUA (JUNE) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
TRACENTA	56.7
BARDOT	43.3
BR 1518	43.3
ALLURE	33.3
NATIONAL	30.0
EGMONT	24.0
EMERALD	18.3
88.CBE	10.0
LOPEZ (WVPB 89-D-15)	10.0
PENNCROSS	10.0
REGENT (NORMARC 101)	10.0
PENNLINKS	6.7
CARMEN	5.0
COBRA	5.0
PRO/CUP (FORBES 89-12)	5.0
PROVIDENCE	5.0
FUTTER	5.0
VIPER (88.CBL)	5.0
SR 1020	3.3
LSD VALUE	18.8

1/ PERCENT POA ANNUA (JUNE) RATED IN 1992 ONLY.

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

TABLE 31. PERCENT POA ANNUA (JULY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	74.0
TRACENTA	66.3
ALLURE	51.5
EMERALD	50.3
EGMONT	49.8
BARDOT	48.7
NATIONAL	47.2
PENNCROSS	37.0
LOPEZ (WVPB 89-D-15)	29.2
88.CBE	27.0
CARMEN	23.8
COBRA	19.2
PRO/CUP (FORBES 89-12)	16.2
FUTTER	14.8
REGENT (NORMARC 101)	14.5
PROVIDENCE	11.2
VIPER (88.CBL)	10.8
PENNLINKS	10.3
SR 1020	6.7
LSA VALUE	30.2

1/ PERCENT POA ANNUA (JULY) RATED IN 1992 & 1993.

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

TABLE 32. PERCENT POA ANNUA (AUGUST) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	66.7
BARDOT	48.3
TRACENTA	48.3
ALLURE	45.0
NATIONAL	30.0
EGMONT	28.3
88.CBE	15.0
EMERALD	15.0
LOPEZ (WVPB 89-D-15)	15.0
PENNCROSS	13.3
COBRA	11.7
VIPER (88.CBL)	10.0
CARMEN	8.3
FUTTER	8.3
REGENT (NORMARC 101)	8.3
PENNLINKS	6.7
PROVIDENCE	6.7
PRO/CUP (FORBES 89-12)	5.0
SR 1020	5.0
LSD VALUE	18.7

1/ PERCENT POA ANNUA (AUGUST) RATED IN 1992 ONLY.

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

TABLE 33. PERCENT POA ANNUA (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	62.3
BARDOT	42.3
TRACENTA	41.7
ALLURE	41.0
EGMONT	31.3
NATIONAL	22.3
EMERALD	14.0
LOPEZ (WVPB 89-D-15)	10.7
COBRA	9.3
PENNCROSS	8.3
88.CBE	7.7
CARMEN	7.7
FUTTER	6.0
PROVIDENCE	5.3
REGENT (NORMARC 101)	5.3
PENNLINKS	5.0
VIPER (88.CBL)	4.3
PRO/CUP (FORBES 89-12)	3.0
SR 1020	2.0
LSD VALUE	17.5

1/ PERCENT POA ANNUA (SEPTEMBER) RATED IN 1992 ONLY.

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

TABLE 34. PERCENT POA ANNUA (OCTOBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
NATIONAL	94.7
TRACENTA	94.3
ALLURE	93.3
FENNCROSS	92.0
REGENT (NORMARC 101)	91.0
BARDOT	90.0
EGMONT	90.0
ER 1518	87.3
EMERALD	86.0
PRO/CUP (FORBES 89-12)	86.0
CARMEN	83.0
PROVIDENCE	82.0
VIPER (88.CBL)	78.7
LOPEZ (WVPB 89-D-15)	77.0
FENNLINKS	75.0
88.CBE	71.3
FUTTER	68.7
SR 1020	65.7
COBRA	60.3
LSD VALUE	30.0

1/ PERCENT POA ANNUA (OCTOBER) RATED IN 1993 ONLY.

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

TABLE 35. PERCENT POA ANNUA (MEAN) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A NATIVE SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1	IL2	MEAN
BR 1518	70.5	29.0	49.7
TRACENTA	63.1	23.3	43.2
ALLURE	56.8	26.7	41.7
BARDOT	58.2	25.0	41.6
NATIONAL	47.6	20.0	33.8
EGMONT	44.7	13.3	29.0
EMERALD	38.8	10.0	24.4
PENNCROSS	30.8	9.3	20.0
LOPEZ (WVPB 89-D-15)	27.7	8.0	17.8
88.CBE	21.7	13.3	17.5
VIPER (88.CBL)	16.0	15.0	15.5
CARMEN	18.9	11.7	15.3
COBRA	16.9	10.7	13.8
REGENT (NORMARC 101)	18.6	7.3	12.9
PUTTER	16.8	9.0	12.9
PENNLINKS	18.2	5.7	11.9
PROVIDENCE	15.7	7.7	11.7
PRO/CUP (FORBES 89-12)	17.9	5.0	11.4
SR 1020	10.2	8.0	9.1
LSD VALUE	20.9	11.3	14.8

1/ PERCENT POA ANNUA (MEAN) RATED AT "CA1" IN 1992 & 1993 AND AT "IL2" IN 1993.

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