

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, a national director, and an executive coordinator. The program will 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. The national director is responsible for the overall coordination and operation of the NTEP, including (1) soliciting entries and distribution of test seed sets to evaluators, (2) data summarization and distribution, and, (3) management of test materials, facilities, and finances.

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LOCATIONS SUBMITTING DATA FOR 1992

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Santa Clara	CA1
Illinois	Urbana	IL1
Indiana	W. Lafayette	IN1
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Maryland	Lothian (Old South C. C.)	MD2
Michigan	East Lansing	MI1
New Jersey	North Brunswick	NJ1
New Jersey	Martinsville	NJ3
Ohio	Marysville	OH2
Oregon	Halsey	OR3
Rhode Island	Kingston	RI1
Virginia	Fairfax (Riverbend Country Club)	VA5
Washington	Puyallup	WA3

1989 NATIONAL BENTGRASS TEST

(Fairway/Tee)

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	Penneagle	creeping	Tee-2-Green Corp.
10	Egmont	A. capillaris (browntop bent)	Olsen-Fennell Seed Co.
11	Regent (Normarc 101)	creeping	Barenbrug USA
12	PRO/CUP (Forbes 89-12)	creeping	Forbes Seed & Grain, Inc.
13	Lopez (WVPB 89-D-15)	creeping	Finelawn Research Corp.
14	National	creeping	Pickseed West, Inc.
15	88.CBE	creeping	International Seeds, Inc.
16	88.CBL	creeping	International Seeds, Inc.
17	Cobra	creeping	International Seeds, Inc.
18	Emerald	creeping	International Seeds, Inc.
19	TAMU 88-1	creeping	Texas A&M University
20	Allure	colonial	Willamette Seed Co.

TABLE A.

1992 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1989 NATIONAL BENTGRASS (FAIRWAY/TEE) TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA1	LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	-	-	-	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	151-270	376-500	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD2	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MI1	SANDY LOAM	7.1-7.5	-	-	8.1+	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	151-270	241-375	2.1-3.0	FULL SUN	0.6-1.0 (5/8")	TO PREVENT STRESS
NJ3	-	-	-	-	-	FULL SUN	0.0-0.5	TO PREVENT STRESS
OH2	SILTY CLAY LOAM	-	-	-	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
OR3	-	-	-	-	-	-	-	-
RI1	SILT LOAM AND SILT	6.6-7.0	-	0-150	2.1-3.0	FULL SUN	0.6-1.0 (3/4")	TO PREVENT STRESS
UB1	SILT LOAM AND SILT	4.6-5.5	61-150	0-150	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
VA5	SILTY CLAY LOAM	6.1-6.5	271-450	241-375	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SANDY LOAM	5.6-6.0	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

FUNGICIDE USE IN 1992 (SUBMITTED TO NTEP)

LOCATION	FUNGICIDE	RATE (OZ./1000 SQ. FT.)	DATE(S) OF APPLICATION
IL1	VARIOUS PRODUCTS	LABEL RATE	THROUGHOUT SEASON TO PREVENT DISEASE
NJ1	CHLOROTHALONIL, IPRDIONE OR TRIADIMEFON	LABEL RATE	6/2 - 9/21, SEVEN TOTAL APPLICATIONS
RI1	ANILAZINE	LABEL RATE	7/3, 11/9

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1992

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
CA1	X		X		X	X	X	X	X	X	X	X
IL1				X	X	X	X	X	X	X		
IN1				X	X	X	X	X				
KY1			X	X	X	X	X	X	X	X		
MD1	X			X	X		X		X	X	X	X
MI1								X	X			
NJ1				X	X	X	X	X	X			
NJ3				X		X	X	X	X			
OH2					X		X		X			
OR3	X	X	X		X	X	X	X	X	X	X	X
RI1					X	X	X	X	X	X	X	
UB1				X	X	X	X	X	X	X	X	
VA5					X		X	X	X	X		
WA3	X	X	X	X	X	X	X	X	X			

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1992

LOCATION	GENETIC COLOR RATING	SPRING GREENUP RATING	LEAF TEXTURE RATING	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER FALL	THATCH MEASUREMENTS	FUSARIUM PATCH
CA1									X	
IL1										
IN1		X								
KY1										
MD1										
MD2				X				X		
MI1										
NJ1										
NJ3	X		X		X	X	X			
OH2										
OR3										
RI1		X								
UB1										
VA5										
WA3									X	X

TABLE B.
(cont'd)

LOCATIONS AND DATA COLLECTED IN 1992

LOCATION	DOLLAR SPOT	RED THREAD	BROWN PATCH	PCT POA MAY	PCT POA JUN	PCT POA JUL	PCT POA AUG	PCT POA SEP
CA1				X	X	X	X	X
IL1			X					
IN1	X							
KY1								
MD1	X		X					
MD2								
MI1								
NJ1								
NJ3								
OH2	X							X
OR3								
RI1	X	X						
UB1	X							
VA5				X		X		X
WA3								

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT FOURTEEN LOCATIONS IN THE U.S.
1992 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/														
	CA1	IL1	IN1	KY1	MD1	MI1	NJ1	NJ3	OH2	OR3	RI1	UB1	VA5	WA3	MEAN
* PROVIDENCE	6.4	6.0	6.8	6.7	6.5	6.5	6.8	7.2	5.9	6.1	5.7	5.7	6.9	5.0	6.3
88.CBE	.	6.0	.	6.7	.	7.0	6.7	.	.	6.6	5.4	5.3	6.5	4.3	6.0
* PENNEAGLE	6.5	6.0	6.2	6.5	6.3	7.0	6.8	6.0	6.9	5.7	5.5	4.3	5.9	4.8	6.0
* REGENT (NORMARC 101)	6.5	6.2	6.2	6.4	6.5	6.3	6.4	5.7	6.0	5.9	4.9	4.8	6.4	4.7	5.9
* PUTTER	7.2	6.0	6.7	5.8	6.3	5.8	6.0	6.6	6.0	5.4	5.0	3.5	6.4	5.5	5.9
* COBRA	6.5	5.3	5.9	6.5	6.4	6.2	6.6	6.6	6.2	5.9	5.0	4.8	5.5	4.8	5.9
* PRO/CUP (FORBES 89-12)	5.9	5.9	5.9	6.4	6.2	5.8	7.1	5.7	6.3	6.5	4.9	4.3	6.5	4.8	5.9
* PENNCROSS	6.3	5.3	6.5	6.0	5.8	6.2	6.4	5.8	6.1	6.0	4.5	4.5	7.3	5.1	5.8
88.CBL	.	4.8	.	6.8	6.5	6.3	6.9	.	.	6.6	5.2	4.4	5.5	4.5	5.8
* LOPEZ (WVPB 89-D-15)	5.9	4.8	5.8	6.5	6.3	6.8	6.2	6.4	6.0	6.0	4.7	4.7	5.5	4.7	5.7
TAMU 88-1	5.9	.	5.5	6.0	6.0	6.7	6.4	.	6.0	5.5	4.7	4.0	6.3	5.1	5.7
* CARMEN	5.6	6.0	6.5	6.0	5.7	6.3	5.9	5.8	6.0	5.8	5.2	3.6	5.8	4.6	5.6
* SR 1020	5.7	5.8	6.1	5.8	6.1	6.3	6.1	6.4	6.1	5.5	4.5	3.5	4.8	5.1	5.6
* NATIONAL	5.8	4.5	6.5	6.9	6.1	6.8	4.8	5.3	5.7	5.1	5.1	3.5	5.0	4.6	5.4
* EGMONT	5.3	5.0	4.9	5.3	6.1	6.7	5.7	4.1	4.6	4.5	5.3	6.4	5.1	5.5	5.3
* BARDOT	5.0	4.7	4.9	5.2	6.3	6.5	6.1	4.3	5.6	4.2	5.8	5.5	5.1	5.3	5.3
* TRACENTA	4.6	5.0	5.5	5.7	6.0	6.3	6.4	3.1	5.8	3.7	5.1	6.0	5.3	5.1	5.3
* EMERALD	4.7	4.3	6.0	5.1	5.9	6.2	5.3	4.9	4.9	5.5	4.5	3.1	6.6	4.8	5.1
ALLURE	4.8	.	4.0	5.0	5.8	6.3	5.2	3.7	5.2	3.6	4.7	4.5	4.7	5.0	4.8
BR 1518	3.6	3.3	4.1	4.7	5.6	5.8	4.8	2.3	4.6	2.3	5.5	4.8	4.3	4.6	4.3
LSD VALUE	0.7	0.7	1.0	0.5	0.5	1.0	0.7	1.1	1.4	0.5	0.7	1.1	1.6	0.5	0.3

* COMMERCIALY AVAILABLE IN THE UNITED STATES IN 1993

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 FAIRWAY OR TEE AT FOURTEEN LOCATIONS IN THE U.S. 1992 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PROVIDENCE	5.0	4.5	5.8	6.1	6.4	6.4	6.7	6.6	6.4	5.8	5.7	6.0	6.3
88.CBE	4.3	5.3	5.8	5.7	6.0	5.9	6.2	6.1	6.2	5.7	5.8	6.7	6.0
FENNEAGLE	4.9	4.5	5.5	5.5	5.8	6.1	6.5	6.3	6.2	5.6	5.7	5.7	6.0
REGENT (NORMARC 101)	5.2	5.2	5.7	5.5	5.9	5.9	6.2	5.8	6.1	5.8	5.9	6.6	5.9
FUTTER	5.3	4.7	5.6	5.3	5.7	6.1	6.4	6.2	5.9	5.5	5.3	6.0	5.9
COBRA	4.9	5.0	5.7	5.7	5.6	6.1	6.3	6.0	5.8	5.5	5.5	6.6	5.9
PRO/CUP (FORBES 89-12)	5.0	4.5	5.8	5.6	6.0	6.2	6.2	5.8	5.8	5.5	5.5	5.9	5.9
FENNCROSS	5.0	5.5	5.7	5.8	5.9	6.2	6.2	5.5	5.6	5.3	5.5	6.1	5.8
88.CBL	5.6	5.0	5.9	5.8	5.6	5.5	6.0	5.9	5.8	5.5	5.4	6.7	5.8
LOPEZ (WVPB 89-D-15)	5.0	5.0	5.5	5.6	5.3	5.7	6.1	5.9	5.7	5.4	5.4	6.1	5.7
TAMU 88-1	5.3	5.2	5.8	5.1	5.7	5.6	5.6	5.6	5.7	5.5	5.5	5.8	5.7
CARMEN	4.8	4.8	5.5	5.2	5.6	5.7	6.0	5.5	5.7	5.2	5.1	5.8	5.6
SR 1020	5.3	5.0	5.9	5.5	5.5	5.6	5.7	5.4	5.5	5.1	5.1	5.4	5.6
NATIONAL	4.6	5.2	4.5	4.9	4.9	5.3	5.9	5.7	5.6	5.5	5.4	6.1	5.5
EGMONT	5.1	5.0	5.5	5.3	5.3	5.4	5.3	5.2	5.2	5.4	5.5	5.4	5.3
EARDOT	4.4	5.7	5.3	5.4	5.1	5.2	5.3	5.0	5.3	5.3	5.6	5.2	5.3
TRACENTA	3.9	4.0	5.1	5.6	5.4	5.2	5.2	5.1	5.1	5.2	4.9	5.3	5.3
EMERALD	4.5	4.8	4.6	4.8	5.1	4.8	5.1	5.2	5.3	4.8	5.3	5.6	5.1
ALLURE	4.3	5.5	5.1	5.1	4.8	4.6	4.4	4.5	4.6	4.9	4.9	5.0	4.8
BR 1518	4.1	3.5	3.8	4.2	4.3	3.9	4.0	4.1	4.5	4.5	4.1	4.2	4.3
LSD VALUE	1.0	1.7	1.0	0.8	0.6	0.7	0.6	0.6	0.6	0.8	1.1	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 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN
ON A FAIRWAY OR TEE AT FOURTEEN LOCATIONS IN THE U.S. 1/
1992 DATA

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

NAME	CA1	IL1	IN1	KY1	MD1	MI1	NJ1	NJ3	OH2	OR3	RI1	UB1	VA5	WA3	MEAN
PROVIDENCE	5.0	4.5	1.0	4.0	2.0	7.5	4.0	1.0	11.0	4.0	2	3.0	2.0	8.5	1
88.CBE	.	6.0	.	3.0	.	1.5	5.0	.	.	1.0	5	5.0	4.5	20.0	2
PENNEAGLE	3.5	2.5	6.5	5.0	6.0	1.5	3.0	6.0	1.0	10.0	3	13.0	9.0	12.5	3
REGENT (NORMARC 101)	2.0	1.0	6.5	8.0	1.0	11.5	8.5	9.5	8.0	7.5	13	6.5	6.5	14.0	4
PUTTER	1.0	2.5	2.0	13.5	5.0	19.0	14.0	2.0	8.0	14.0	11	17.5	6.5	1.5	5
COBRA	3.5	9.0	10.0	6.5	4.0	16.0	6.0	3.0	3.0	7.5	12	8.0	11.5	10.0	6
PRO/CUP (FORBES 89-12)	7.0	7.0	11.0	9.0	9.0	19.0	1.0	9.5	2.0	3.0	14	14.0	4.5	12.5	7
PENNCROSS	6.0	10.0	3.5	11.5	16.5	16.0	7.0	7.5	4.5	6.0	18	11.0	1.0	6.0	8
88.CBL	.	13.5	.	2.0	3.0	11.5	2.0	.	.	2.0	7	12.0	13.0	19.0	9
LOPEZ (WVPB 89-D-15)	9.0	13.5	12.0	6.5	7.5	3.5	11.0	4.0	8.0	5.0	16	9.0	11.5	15.0	10
TAMU 88-1	8.0	.	13.5	11.5	14.0	5.5	10.0	.	8.0	12.5	16	15.0	8.0	5.0	11
CARMEN	12.0	4.5	5.0	10.0	18.0	11.5	15.0	7.5	8.0	9.0	8	16.0	10.0	16.0	12
SR 1020	11.0	8.0	8.0	13.5	12.0	11.5	12.5	5.0	4.5	11.0	20	17.5	18.0	4.0	13
NATIONAL	10.0	16.0	3.5	1.0	10.5	3.5	19.5	11.0	13.0	15.0	10	19.0	17.0	17.0	14
EGMONT	13.0	11.5	15.5	16.0	10.5	5.5	16.0	14.0	18.0	16.0	6	1.0	15.0	1.5	15
BARDOT	14.0	15.0	15.5	17.0	7.5	7.5	12.5	13.0	14.0	17.0	1	4.0	16.0	3.0	16
TRACENTA	17.0	11.5	13.5	15.0	13.0	11.5	8.5	16.0	12.0	18.0	9	2.0	14.0	7.0	17
EMERALD	16.0	17.0	9.0	18.0	15.0	16.0	17.0	12.0	16.0	12.5	19	20.0	3.0	11.0	18
ALLURE	15.0	.	18.0	19.0	16.5	11.5	18.0	15.0	15.0	19.0	16	10.0	19.0	8.5	19
BR 1518	18.0	18.0	17.0	20.0	19.0	19.0	19.5	17.0	17.0	20.0	4	6.5	20.0	18.0	20

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 FAIRWAY OR TEE
1992 DATA

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

NAME	NJ3	MEAN
PROVIDENCE	7.0	7.0
PUTTER	6.3	6.3
CARMEN	6.0	6.0
COBRA	6.0	6.0
PENNEAGLE	6.0	6.0
SR 1020	6.0	6.0
LOPEZ (WVPB 89-D-15)	6.0	6.0
PRO/CUP (FORBES 89-12)	5.7	5.7
PENNCROSS	5.7	5.7
BARDOT	5.3	5.3
REGENT (NORMARC 101)	5.3	5.3
ALLURE	5.0	5.0
EGMONT	5.0	5.0
NATIONAL	5.0	5.0
EMERALD	4.7	4.7
TRACENTA	4.3	4.3
BR 1518	3.7	3.7
LSD VALUE	1.3	1.3

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 5. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	IN1	RI1	MEAN
88.CBE	.	4.7	4.7
NATIONAL	5.0	4.3	4.7
PENNEAGLE	4.0	5.3	4.7
PUTTER	4.3	4.7	4.5
SR 1020	3.7	5.0	4.3
REGENT (NORMARC 101)	3.7	4.7	4.2
CARMEN	4.0	4.3	4.2
88.CBL	.	4.0	4.0
EMERALD	4.0	4.0	4.0
TAMU 88-1	2.7	5.0	3.8
PENNCROSS	3.7	3.7	3.7
ALLURE	2.7	4.3	3.5
PROVIDENCE	3.7	3.3	3.5
LOPEZ (WBPB 89-D-15)	3.0	4.0	3.5
BR 1518	2.0	4.7	3.3
COBRA	3.3	3.3	3.3
PRO/CUP (FORBES 89-12)	2.3	4.3	3.3
TRACENTA	3.0	3.3	3.2
BARDOT	2.7	3.7	3.2
EGMONT	2.0	4.0	3.0
LSD VALUE	1.2	1.7	1.1

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).

TABLE 6. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	NJ3	MEAN
COBRA	6.7	6.7
SR 1020	6.7	6.7
PROVIDENCE	6.3	6.3
LOPEZ (WVPB 89-D-15)	6.3	6.3
PRO/CUP (FORBES 89-12)	6.0	6.0
REGENT (NORMARC 101)	6.0	6.0
PENNCROSS	6.0	6.0
CARMEN	5.7	5.7
PENNEAGLE	5.7	5.7
PUTIER	5.7	5.7
NATIONAL	5.3	5.3
BARDOT	5.0	5.0
TRACENTA	5.0	5.0
EGMONT	4.7	4.7
EMERALD	4.3	4.3
ALLURE	4.0	4.0
BR 1518	3.3	3.3
LSD VALUE	1.2	1.2

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).

TABLE 7. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	MD2	MEAN
PROVIDENCE	4.0	4.0
REGENT (NORMARC 101)	3.7	3.7
LOPEZ (WVPB 89-D-15)	3.7	3.7
PRO/CUP (FORBES 89-12)	3.3	3.3
NATIONAL	3.3	3.3
SR 1020	3.3	3.3
88.CBE	3.0	3.0
PENNCROSS	3.0	3.0
PUTTIER	3.0	3.0
EGMONT	2.7	2.7
PENNEAGLE	2.7	2.7
TAMU 88-1	2.7	2.7
BARDOT	2.3	2.3
BR 1518	2.3	2.3
ALLURE	2.0	2.0
CARMEN	2.0	2.0
TRACENTA	1.0	1.0
LSD VALUE	1.0	1.0

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).

TABLE 8. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	NJ3	MEAN
PROVIDENCE	7.0	7.0
LOPEZ (WVPB 89-D-15)	7.0	7.0
COBRA	6.7	6.7
PENNCROSS	6.7	6.7
PUTIER	6.3	6.3
CARMEN	6.0	6.0
NATIONAL	6.0	6.0
SR 1020	6.0	6.0
REGENT (NORMARC 101)	5.7	5.7
PRO/CUP (FORBES 89-12)	5.3	5.3
PENNEAGLE	5.3	5.3
ALLURE	3.7	3.7
BARDOT	3.7	3.7
EMERALD	3.7	3.7
TRACENTA	3.7	3.7
EGMONT	3.3	3.3
BR 1518	2.7	2.7
LSD VALUE	1.7	1.7

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).

TABLE 9. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	NJ3	MEAN
PROVIDENCE	7.7	7.7
PUTTER	7.0	7.0
SR 1020	7.0	7.0
LOPEZ (WVPB 89-D-15)	6.7	6.7
CARMEN	6.3	6.3
PRO/CUP (FORBES 89-12)	6.3	6.3
PENNEAGLE	6.3	6.3
COBRA	6.0	6.0
NATIONAL	6.0	6.0
PENNCROSS	6.0	6.0
REGENT (NORMARC 101)	5.7	5.7
EMERALD	5.0	5.0
BARDOT	4.3	4.3
EGMONT	4.3	4.3
TRACENTA	4.0	4.0
ALLURE	3.3	3.3
BR 1518	2.3	2.3
LSD VALUE	1.4	1.4

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 10. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	NJ3	MEAN
PROVIDENCE	7.7	7.7
SR 1020	7.0	7.0
PUTIER	6.7	6.7
COBRA	6.0	6.0
CARMEN	5.7	5.7
NATIONAL	5.7	5.7
PENNEAGLE	5.7	5.7
EGMONT	5.0	5.0
EMERALD	5.0	5.0
PRO/CUP (FORBES 89-12)	5.0	5.0
BARDOT	4.7	4.7
REGENT (NORMARC 101)	4.7	4.7
LOPEZ (WVPB 89-D-15)	4.7	4.7
PENNCROSS	4.3	4.3
BR 1518	3.3	3.3
TRACENTA	3.3	3.3
ALLURE	3.0	3.0
LSD VALUE	1.9	1.9

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).

TABLE 11. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS
CULTIVARS GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/

NAME	MD2	MEAN
NATIONAL	90.7	90.7
REGENT (NORMARC 101)	90.0	90.0
LOPEZ (WVPB 89-D-15)	90.0	90.0
88.CEE	88.3	88.3
PENNCROSS	88.3	88.3
PUTTER	88.3	88.3
CARMEN	86.7	86.7
PENNEAGLE	86.7	86.7
PROVIDENCE	86.7	86.7
PRO/CUP (FORBES 89-12)	85.0	85.0
SR 1020	85.0	85.0
TAMU 88-1	81.7	81.7
BARDOT	75.0	75.0
EGMONI	73.3	73.3
ALLURE	68.3	68.3
TRACENTA	65.0	65.0
BR 1518	58.3	58.3
LSD VALUE	12.8	12.8

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

TABLE 12. THATCH MEASUREMENTS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

THATCH MEASUREMENTS IN MILLIMETERS 1/			
NAME	CA1	WA3	MEAN
88.CBE	.	37.3	37.3
REGENT (NORMARC 101)	32.3	34.7	33.5
88.CBL	.	33.3	33.3
PUTTER	29.3	35.3	32.3
LOPEZ (WVPB 89-D-15)	27.0	37.7	32.3
COBRA	28.7	35.7	32.2
PENNEAGLE	30.3	33.3	31.8
PENNCROSS	27.7	34.7	31.2
PRO/CUP (FORBES 89-12)	27.0	35.0	31.0
PROVIDENCE	27.0	35.0	31.0
SR 1020	27.7	33.7	30.7
CARMEN	25.7	34.0	29.8
TAMU 88-1	24.7	35.0	29.8
EMERALD	22.3	35.3	28.8
NATIONAL	20.0	35.0	27.5
ALLURE	19.3	32.7	26.0
EGMONT	14.7	34.7	24.7
TRACENTA	14.3	33.7	24.0
BR 1518	11.7	33.3	22.5
BARDOT	14.3	30.0	22.2
LSD VALUE	6.1	3.9	3.7

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).

TABLE 13. FUSARIUM PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	WA3	MEAN
88.CBL	9.0	9.0
SR 1020	8.3	8.3
BR 1518	8.0	8.0
CARMEN	8.0	8.0
COBRA	8.0	8.0
EMERALD	8.0	8.0
ALLURE	7.7	7.7
PROVIDENCE	7.7	7.7
88.CBE	7.3	7.3
BARDOT	7.3	7.3
TRACENTA	7.3	7.3
REGENT (NORMARC 101)	7.0	7.0
PENNCROSS	7.0	7.0
PUTIER	7.0	7.0
PRO/CUP (FORBES 89-12)	6.7	6.7
NATIONAL	6.3	6.3
EGMONT	6.0	6.0
PENNEAGLE	6.0	6.0
TAMU 88-1	6.0	6.0
LOPEZ (WVPB 89-D-15)	4.7	4.7
LSD VALUE	2.5	2.5

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 14. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	IN1	MD1	OH2	RI1	UB1	MEAN
TRACENTA	7.0	8.7	7.0	6.7	6.3	7.1
BARDOT	6.0	8.7	7.7	6.0	6.3	6.9
EGMONT	6.3	8.7	7.0	5.3	7.0	6.9
BR 1518	5.0	8.0	6.3	7.3	7.0	6.7
PROVIDENCE	5.3	8.0	6.7	6.3	5.3	6.3
NATIONAL	5.3	7.7	7.7	6.7	4.0	6.3
COBRA	5.7	7.7	7.7	5.7	4.3	6.2
PENNEAGLE	5.7	7.7	8.0	5.7	3.7	6.1
ALLURE	6.7	7.7	6.7	6.0	3.7	6.1
LOPEZ (WVPB 89-D-15)	5.7	7.7	7.3	5.3	4.0	6.0
88.CBE	.	.	.	6.3	5.0	5.7
REGENT (NORMARC 101)	5.0	7.7	7.0	4.3	4.0	5.6
88.CBL	.	7.3	.	4.7	3.7	5.2
PRO/CUP (FORBES 89-12)	4.0	6.7	7.0	5.0	3.3	5.2
CARMEN	3.7	6.7	7.7	5.3	1.7	5.0
TAMU 88-1	3.0	7.3	7.0	4.0	3.0	4.9
PUTTER	4.0	6.3	6.7	5.0	2.0	4.8
PENNCROSS	2.7	8.0	7.3	2.3	3.3	4.7
EMERALD	3.0	6.7	6.0	4.0	1.3	4.2
SR 1020	3.3	5.7	6.3	3.3	2.0	4.1
LSD VALUE	1.5	1.7	1.8	1.4	1.9	0.8

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).

TABLE 15. RED THREAD RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 1/

NAME	RI1	MEAN
88.CBL	8.0	8.0
BARDOT	8.0	8.0
CARMEN	8.0	8.0
EMERALD	8.0	8.0
PRO/CUP (FORBES 89-12)	8.0	8.0
PENNEAGLE	8.0	8.0
PROVIDENCE	8.0	8.0
PUTTIER	8.0	8.0
TAMU 88-1	8.0	8.0
LOPEZ (WVPB 89-D-15)	8.0	8.0
88.CBE	7.7	7.7
COBRA	7.7	7.7
NATIONAL	7.7	7.7
REGENT (NORMARC 101)	7.7	7.7
PENNCROSS	7.7	7.7
SR 1020	7.7	7.7
EGMONT	7.3	7.3
TRACENTA	7.0	7.0
ALLURE	6.7	6.7
BR 1518	6.7	6.7
LSD VALUE	0.6	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 16. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE
1992 DATA

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

NAME	IL1	MD1	MEAN
88.CBE	9.0	.	9.0
88.CBL	9.0	9.0	9.0
CARMEN	9.0	9.0	9.0
COBRA	9.0	9.0	9.0
PRO/CUP (FORBES 89-12)	9.0	9.0	9.0
NATIONAL	9.0	9.0	9.0
REGENT (NORMARC 101)	9.0	9.0	9.0
PROVIDENCE	9.0	9.0	9.0
PUTTER	9.0	9.0	9.0
SR 1020	9.0	9.0	9.0
PENNCROSS	9.0	8.7	8.8
PENNEAGLE	9.0	8.7	8.8
LOPEZ (WVPB 89-D-15)	8.7	9.0	8.8
ALLURE	.	8.7	8.7
TAMU 88-1	.	8.7	8.7
EMERALD	7.3	9.0	8.2
TRACENTA	7.0	8.0	7.5
EGMONT	5.7	7.7	6.7
BR 1518	7.3	6.0	6.7
BARDOT	4.7	8.3	6.5
LSD VALUE	2.1	0.8	1.2

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).

TABLE 17. PERCENT POA ANNUA (MAY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT POA ANNUA: LOCATIONS 1/

NAME	CA1	VA5	MEAN
88.CBL	.	16.7	16.7
SR 1020	5.0	28.3	16.7
NATIONAL	13.3	18.3	15.8
LOPEZ (WVPB 89-D-15)	5.0	21.7	13.3
COBRA	3.3	23.3	13.3
ALLURE	5.0	20.0	12.5
PENNEAGLE	1.7	18.3	10.0
BARDOT	8.3	10.0	9.2
EGMONT	8.3	10.0	9.2
TAMU 88-1	5.0	13.3	9.2
BR 1518	8.3	6.7	7.5
PRO/CUP (FORBES 89-12)	5.0	10.0	7.5
REGENT (NORMARC 101)	5.0	10.0	7.5
PUTTER	1.7	13.3	7.5
TRACENTA	8.3	6.7	7.5
CARMEN	3.3	10.0	6.7
88.CBE	.	5.0	5.0
EMERALD	8.3	1.7	5.0
PROVIDENCE	0.0	5.0	2.5
PENNCROSS	3.3	0.0	1.7
LSD VALUE	6.2	16.7	9.5

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 18. PERCENT POA ANNUA (JUNE) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT POA ANNUA: LOCATIONS 1/		
NAME	CA1	MEAN
NATIONAL	10.0	10.0
EGMONT	6.7	6.7
BR 1518	5.3	5.3
BARDOT	5.0	5.0
EMERALD	5.0	5.0
PRO/CUP (FORBES 89-12)	5.0	5.0
REGENT (NORMARC 101)	5.0	5.0
TAMU 88-1	5.0	5.0
TRACENTA	5.0	5.0
LOPEZ (WVPB 89-D-15)	5.0	5.0
ALLURE	3.3	3.3
CARMEN	3.3	3.3
PROVIDENCE	3.3	3.3
COBRA	1.7	1.7
PENNCROSS	1.7	1.7
PENNEAGLE	1.7	1.7
PUTTER	1.7	1.7
SR 1020	1.7	1.7
LSD VALUE	6.3	6.3

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 19. PERCENT POA ANNUA (JULY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT POA ANNUA: LOCATIONS 1/

NAME	CA1	VA5	MEAN
88.CBL	.	43.3	43.3
NATIONAL	16.7	45.0	30.8
SR 1020	10.0	51.7	30.8
BR 1518	15.0	45.0	30.0
TRACENTA	21.7	33.3	27.5
88.CBE	.	26.7	26.7
COBRA	3.0	48.3	25.7
LOPEZ (WVPB 89-D-15)	6.7	41.7	24.2
BARDOT	21.7	25.0	23.3
EGMONT	16.7	30.0	23.3
PENNEAGLE	0.7	43.3	22.0
PRO/CUP (FORBES 89-12)	10.0	33.3	21.7
CARMEN	10.0	31.7	20.8
ALLURE	13.3	26.7	20.0
EMERALD	20.0	16.7	18.3
TAMU 88-1	5.0	26.7	15.8
PROVIDENCE	7.0	18.3	12.7
REGENT (NORMARC 101)	5.7	18.3	12.0
PENNCROSS	4.7	18.3	11.5
PUTTER	1.3	18.3	9.8
LSD VALUE	10.0	32.8	18.4

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 20. PERCENT POA ANNUA (AUGUST) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT POA ANNUA: LOCATIONS 1/		
NAME	CA1	MEAN
EMERALD	23.3	23.3
BARDOT	20.0	20.0
TRACENTA	18.3	18.3
BR 1518	15.0	15.0
CARMEN	15.0	15.0
EGMONT	13.3	13.3
ALLURE	11.7	11.7
NATIONAL	11.7	11.7
SR 1020	11.7	11.7
PRO/CUP (FORBES 89-12)	8.3	8.3
LOPEZ (WVPB 89-D-15)	6.7	6.7
PENNCROSS	5.3	5.3
PROVIDENCE	5.3	5.3
REGENT (NORMARC 101)	5.0	5.0
TAMU 88-1	5.0	5.0
COBRA	4.3	4.3
PUTTER	3.0	3.0
PENNEAGLE	1.0	1.0
LSD VALUE	10.0	10.0

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).

TABLE 21. PERCENT POA ANNUA (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
1992 DATA

PERCENT POA ANNUA: LOCATIONS 1/				
NAME	CA1	OH2	VA5	MEAN
BR 1518	9.0	51.7	50.0	36.9
ALLURE	9.0	41.0	55.0	35.0
EGMONT	8.0	44.3	31.7	28.0
EMERALD	21.0	46.7	11.0	26.2
BARDOT	9.3	36.7	28.3	24.8
TRACENTA	6.7	34.3	24.3	21.8
NATIONAL	9.3	32.7	16.7	19.6
SR 1020	9.3	24.3	23.3	19.0
LOPEZ (WVPB 89-D-15)	4.7	26.0	25.0	18.6
CARMEN	8.7	28.7	16.3	17.9
COBRA	2.7	24.3	26.7	17.9
TAMU 88-1	6.3	23.3	15.0	14.9
PRO/CUP (FORBES 89-12)	9.3	17.7	14.0	13.7
PROVIDENCE	5.3	23.7	7.3	12.1
PENNEAGLE	1.7	17.0	15.3	11.3
REGENT (NORMARC 101)	5.7	21.0	6.0	10.9
PUTTER	1.7	20.3	7.7	9.9
PENNCROSS	3.0	22.7	3.0	9.6
88.CBE	.	.	8.7	8.7
88.CBL	.	.	8.3	8.3
LSD VALUE	8.0	15.1	21.5	10.2

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