

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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CONTENTS

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

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

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

Table A - 1990-93 Locations, Site Descriptions and Management Practices
in the 1989 National Bentgrass (Modified 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
Modified Soil Green at Thirteen Locations in the U. S.....5

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

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

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

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

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

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

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

Table 9 - Wear Tolerance (October) Ratings of Bentgrass Cultivars
Grown on a Modified Soil Green.....13

Table 10 - Wear Tolerance (November) Ratings of Bentgrass Cultivars
Grown on a Modified Soil Green.....14

Table 11 - Wear Tolerance (December) Ratings of Bentgrass Cultivars
Grown on a Modified Soil Green.....15

Table 12 - Seedling Vigor Ratings of Bentgrass Cultivars Grown on a
Modified Soil Green.....16

Table 13 - Spring Density Ratings of Bentgrass Cultivars Grown on a
Modified Soil Green.....17

CONTENTS (Continued)

Table 14	- Summer Density Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	18
Table 15	- Fall Density Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	19
Table 16	- Percent Living Ground Cover (Spring) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	20
Table 17	- Percent Living Ground Cover (Summer) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	21
Table 18	- Percent Living Ground Cover (Fall) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	22
Table 19	- Frost Tolerance Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	23
Table 20	- Winter Color Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	24
Table 21	- Drought Tolerance (Dormancy) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	25
Table 22	- Thatch Measurements of Bentgrass Cultivars Grown on a Modified Soil Green.....	26
Table 23	- Thatch Ashed Dry Weight of Bentgrass Cultivars Grown on a Modified Soil Green.....	27
Table 24	- Typhula Blight Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	28
Table 25	- Fusarium Patch Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	29
Table 26	- Disease Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	30
Table 27	- Dollar Spot Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	31
Table 28	- Brown Patch Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	32
Table 29	- Yellow Tuft Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	33
Table 30	- Percent Poa Annua (January) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	34
Table 31	- Percent Poa Annua (February) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	35

CONTENTS (Continued)

Table 32 - Percent Poa Annua (April) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	36
Table 33 - Percent Poa Annua (May) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	37
Table 34 - Percent Poa Annua (June) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	38
Table 35 - Percent Poa Annua (July) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	39
Table 36 - Percent Poa Annua (August) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	40
Table 37 - Percent Poa Annua (September) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	41
Table 38 - Percent Poa Annua (October) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	42
Table 39 - Percent Poa Annua (Mean) Ratings of Bentgrass Cultivars Grown on a Modified Soil Green.....	43

LOCATIONS SUBMITTING DATA FOR 1990-93

<u>State</u>	<u>Location</u>	<u>Code</u>
Arizona	Tucson	AZ1
California	Santa Clara	CA1
Florida	West Palm Beach (Banyan Country Club)	FL1
Georgia	Griffin	GA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Louisiana	Baton Rouge	LA1
Massachusetts	Deerfield	MA1
Michigan	East Lansing	MI1
Mississippi	Mississippi State	MS1
Texas	Dallas	TX1
Texas	Dallas	TX2
Washington	Puyallup	WA3

1989 NATIONAL BENTGRASS TEST

(Greens-Modified 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	18th Green (UM 84-01)	creeping	Johnson Seeds, Ltd.
11	Egmont	A. capillaris (browntop bent)	Olsen-Fennell Seed Co.
12	Regent (Normarc 101)	creeping	Barenbrug USA
13	PRO/CUP (Forbes 89-12)	creeping	Forbes Seed & Grain
14	Lopez (WVPB 89-D-15)	creeping	Finelawn Research Corp.
15	National	creeping	Pickseed West, Inc.
16	88.CBE	creeping	International Seeds, Inc.
17	Viper (88.CBL)	creeping	International Seeds, Inc.
18	Cobra	creeping	International Seeds, Inc.
19	Emerald	creeping	International Seeds, Inc.
20	TAMU 88-1	creeping	Texas A&M University
21	Allure	colonial	Willamette Seed Co.
22	MSCB-6	creeping	Mississippi St. Univ.
23	MSCB-8	creeping	Mississippi St. Univ.

TABLE A.

1990-1993 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1989 NATIONAL BENTGRASS (MODIFIED SOIL 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	7.1-7.5	0-60	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
CA1	SANDY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
FL1	SAND	6.6-7.0	451+	501+	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
GA1	SAND	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	SAND	6.1-6.5	61-150	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
KY1	SAND	7.1-7.5	0-60	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
LA1	LOAMY SAND	4.6-5.5	61-150	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MA1	SAND	5.6-6.0	0-60	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MI1	SAND	7.1-7.5	0-60	0-150	6.1-7.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MS1	SAND	6.1-6.5	151-270	241-375	7.1-8.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
TX1	LOAMY SAND	6.1-6.5	0-60	0-150	7.1-8.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
TX2	LOAMY SAND	6.1-6.5	0-60	0-150	7.1-8.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SAND	5.6-6.0	0-60	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1990-1993

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 RATING	SPRING GREENUP RATING
AZ1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CA1	X	X	X	X	X	X	X	X	X	X	X	X	X	
FL1	X	X	X											
GA1				X	X	X	X	X	X	X				
KS1			X	X	X	X	X	X	X	X	X			
KY1			X	X	X	X	X	X	X	X			X	
LA1				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					
MS1	X	X	X	X	X			X	X	X	X	X		
TX1	X	X	X	X	X	X	X	X	X	X	X	X		
TX2	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

TABLE B. (CONTINUED)

LOCATIONS AND DATA COLLECTED IN 1990-1993

LOCATION	LEAF TEXTURE RATING	WEAR TOLERANCE	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FROST TOLERANCE	WINTER COLOR	DROUGHT TOLERANCE DORMANCY	THATCH	TYPHULA BLIGHT
AZ1	X		X		X						X		X	
CA1	X			X	X	X			X				X	
FL1			X											
GA1				X	X	X								
KS1														
KY1														
LA1														
MA1							X	X						X
MI1														X
MS1												X		
TX1		X					X							
TX2		X												
WA3			X	X	X	X				X	X		X	

TABLE B. (CONTINUED)

LOCATIONS AND DATA COLLECTED IN 1990-1993

LOCATION	FUSARIUM PATCH	DISEASE	DOLLAR SPOT	BROWN PATCH	WEAR TOLERANCE	YELLOW TUFT	PERCENT POA JANUARY	PERCENT POA FEBRUARY	PERCENT POA APRIL	PERCENT POA MAY	PERCENT POA JUNE	PERCENT POA JULY	PERCENT POA AUGUST	PERCENT POA SEPTEMBER	PERCENT POA OCTOBER
AZ1															
CA1							X	X	X	X	X	X	X	X	X
FL1		X													
GA1															
KS1				X											
KY1															
LA1		X													
MA1				X											
MI1				X		X									
MS1															
TX1			X		X										
TX2															
WA3	X											X			

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A MODIFIED SOIL GREEN AT THIRTEEN LOCATIONS IN THE U.S. 1990-1993 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/													
	AZ1	CA1	FL1	GA1	KS1	KY1	LA1	MA1	MI1	MS1	TX1	TX2	WA3	MEAN
* REGENT (NORMARC 101)	7.0	5.9	.	6.7	7.3	6.4	6.8	7.2	6.5	6.1	4.7	5.9	4.9	6.3
* PROVIDENCE	7.1	.	4.0	6.9	7.6	7.4	5.7	7.2	6.7	5.8	4.8	6.6	5.6	6.3
* SR 1020	7.2	6.1	4.9	6.4	7.1	6.5	6.2	7.2	6.3	6.0	5.0	6.4	5.3	6.2
* PUTIER 88.CBE	6.9	5.9	4.8	6.3	7.5	6.0	5.7	7.2	6.3	5.4	5.3	6.4	6.1	6.1
* VIPER (88.CBL)	6.9	.	4.3	6.7	7.1	6.3	5.5	7.2	6.6	6.0	4.5	6.0	5.3	6.0
* PENNLINKS	6.7	5.7	4.7	6.5	7.1	6.1	5.7	6.9	6.3	5.9	4.8	6.4	5.5	6.0
* COBRA	6.9	6.3	3.7	6.1	7.0	6.3	6.0	6.9	6.2	5.7	4.9	6.7	5.2	6.0
* LOPEZ (WVPB 89-D-15)	6.8	5.5	5.3	6.5	7.0	6.0	6.4	6.8	5.5	5.6	4.9	6.1	5.2	6.0
* PRO/CUP (FORBES 89-12)	6.8	5.9	4.3	6.5	6.8	6.0	5.9	7.2	6.0	5.8	4.8	6.3	5.2	5.9
* PENNCROSS TAMU 88-1	5.9	5.7	5.0	6.8	7.1	5.9	6.0	6.8	6.4	5.5	4.7	6.0	4.9	5.9
MSCB-8	6.4	6.0	4.1	5.8	6.8	5.7	6.4	6.7	6.0	5.4	4.8	6.5	5.2	5.8
* 18TH GREEN (UM 84-01)	6.1	5.9	4.4	6.4	6.8	5.7	6.0	6.4	5.9	5.9	4.8	6.0	4.5	5.8
* CARMEN	6.7	5.2	5.6	6.6	6.4	5.8	5.5	6.4	5.5	5.1	4.7	6.4	5.0	5.8
* CARMEN MSCB-6	6.6	5.4	4.3	6.4	6.8	5.7	5.8	6.5	5.9	5.3	4.4	6.0	4.9	5.7
NATIONAL	5.9	.	4.1	6.1	6.6	5.7	5.4	6.2	5.9	6.0	4.6	6.1	4.6	5.6
* NATIONAL	5.9	4.9	4.6	6.3	6.6	5.8	5.4	6.1	5.1	4.9	4.6	5.7	4.6	5.4
* EMERALD	5.7	5.4	3.2	5.9	6.8	5.6	5.4	5.9	5.3	4.4	4.5	.	4.9	5.2
* BARDOT	4.3	4.3	3.4	5.5	6.9	4.9	5.1	6.0	2.7	5.4	4.9	.	5.8	4.9
* EGMONT	4.2	5.1	2.9	4.4	6.6	4.6	5.2	6.2	2.9	5.0	5.3	.	5.8	4.9
* TRACENTA	4.3	4.4	4.3	5.1	6.5	4.9	5.3	5.9	2.5	4.7	4.4	.	5.8	4.9
ALLURE	3.8	4.2	4.0	4.8	6.7	4.7	5.0	5.6	2.8	4.5	.	.	5.1	4.7
BR 1518	4.0	4.0	2.2	5.2	6.8	4.4	4.3	5.1	2.5	4.6	4.5	6.4	4.0	4.5
LSD VALUE	0.6	0.6	1.4	0.7	0.5	0.6	1.5	0.5	0.8	1.0	1.3	0.7	0.5	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 MODIFIED SOIL GREEN AT THIRTEEN LOCATIONS IN THE U.S. 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
PROVIDENCE	5.1	5.1	6.0	6.9	7.3	7.3	7.1	6.5	6.5	6.6	5.6	5.3	6.4
REGENT (NORMARC 101)	5.0	5.4	5.8	6.5	6.6	6.5	6.5	6.4	6.4	6.5	5.2	5.0	6.2
FUTTER	5.4	5.5	5.9	6.3	6.7	6.6	7.0	6.2	6.1	6.1	5.7	5.9	6.2
SR 1020	5.5	5.6	6.2	6.5	6.8	6.4	6.6	6.3	6.2	6.2	5.4	5.7	6.2
VIPER (88.CBL)	4.8	5.2	5.8	6.4	6.8	6.6	6.6	6.2	6.2	6.4	5.5	5.3	6.1
88.CBE	4.8	5.2	6.0	6.5	6.8	6.5	6.4	6.2	6.1	6.3	5.2	5.1	6.1
FENNLINKS	5.1	5.3	5.8	6.0	6.7	6.5	6.5	6.0	6.1	6.1	5.7	5.3	6.0
COBRA	5.2	5.5	6.2	6.3	6.6	6.4	6.5	6.1	6.2	6.3	5.6	5.3	6.0
PRO/CUP (FORBES 89-12)	4.8	5.2	5.8	6.3	6.5	6.6	6.5	6.1	6.1	6.2	5.3	5.2	6.0
LOPEZ (WVPB 89-D-15)	4.9	5.2	5.8	6.0	6.2	6.3	6.3	6.1	6.0	6.1	5.1	4.8	5.9
FENNCROSS	4.9	4.8	5.7	6.1	6.5	6.1	6.2	5.9	5.8	6.1	5.0	4.8	5.9
TAMU 88-1	5.1	5.3	5.6	6.0	6.2	6.1	6.2	6.0	5.9	6.0	5.2	5.2	5.8
MSCB-8	4.9	4.9	5.5	6.1	5.9	6.0	6.1	6.0	5.9	5.9	4.9	4.8	5.8
CARMEN	4.7	4.9	5.3	6.0	6.3	6.2	6.2	5.8	5.6	5.7	4.8	4.9	5.7
18TH GREEN (UM 84-01)	4.3	4.7	5.6	6.0	6.4	6.0	6.2	6.1	5.8	5.8	4.6	4.5	5.7
MSCB-6	4.5	4.6	5.4	6.2	6.1	6.0	6.0	5.8	5.9	5.8	4.6	4.7	5.7
NATIONAL	4.3	4.8	5.1	6.0	5.8	5.6	5.8	5.4	5.6	5.9	4.6	4.6	5.4
EMERALD	4.5	4.7	5.2	5.3	5.8	5.7	5.9	5.5	5.4	5.6	4.9	4.9	5.4
HARDOT	4.9	4.9	5.0	5.5	5.5	4.7	5.3	4.9	4.8	5.4	4.5	4.7	5.0
EGMONT	5.3	5.0	5.0	4.8	5.5	5.0	5.2	4.6	4.7	5.3	5.0	5.2	4.9
TRACENTA	4.8	5.0	5.0	5.5	5.5	4.9	5.0	4.6	4.6	5.6	4.8	4.8	4.8
ALLURE	4.5	4.7	4.8	5.4	5.1	4.5	4.7	4.4	4.3	5.0	4.4	4.4	4.6
ER 1518	4.3	4.2	4.5	4.6	5.0	4.4	4.6	4.3	4.4	5.1	4.1	4.6	4.4
LSD VALUE	0.6	0.7	0.5	0.6	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.7	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 MODIFIED SOIL GREEN AT THIRTEEN LOCATIONS IN THE U.S. 1/
1990-1993 DATA

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

NAME	AZ1	CA1	FL1	GA1	KS1	KY1	LA1	MA1	MI1	MS1	TX1	TX2	WA3	MEAN
REGENT (NORMARC 101)	4	5	.	4	3.0	4	1.0	2	4	1.0	12	17.0	16	1
PROVIDENCE	3	.	17.0	1	1.0	1	12.5	4	1	7.0	8	2.0	5	2
SR 1020	1	2	5.0	10	8.0	3	4.0	5	7	2.0	3	8.0	8	3
PUTTER	7	4	6.0	13	2.0	8	12.5	3	8	12.5	2	6.0	1	4
88.CBE	2	14	1.5	9	4.0	2	5.0	1	3	12.5	17	10.0	13	5
VIPER (88.CBL)	5	.	11.5	3	5.0	5	14.0	6	2	4.0	20	16.0	7	6
PENNLINKS	10	8	7.0	6	6.0	7	11.0	9	6	5.0	11	4.0	6	7
COBRA	6	1	18.0	15	9.5	6	7.0	8	9	9.0	6	1.0	9	8
LOPEZ (WVPB 89-D-15)	8	10	3.0	8	9.5	10	3.0	11	16	10.0	4	11.5	11	9
PRO/CUP (FORBES 89-12)	9	7	11.5	7	14.5	9	9.0	7	10	8.0	7	9.0	10	10
PENNCROSS	17	9	4.0	2	7.0	11	8.0	10	5	11.0	13	14.5	19	11
TAMU 88-1	13	3	14.5	18	17.0	16	2.0	12	11	14.5	10	3.0	12	12
MSCB-8	14	6	9.0	11	12.0	15	6.0	14	13	6.0	9	13.0	22	13
18TH GREEN (UM 84-01)	11	13	1.5	5	23.0	13	15.0	15	15	17.0	14	6.0	15	14
CARMEN	12	11	11.5	12	13.0	17	10.0	13	12	16.0	22	14.5	18	15
MSCB-6	16	.	14.5	16	19.0	14	17.5	17	14	3.0	16	11.5	20	16
NATIONAL	15	16	8.0	14	21.0	12	17.5	18	18	19.0	15	18.0	21	17
EMERALD	18	12	20.0	17	16.0	18	16.0	21	17	23.0	18	.	17	18
BARDOT	19	18	19.0	19	11.0	19	21.0	19	21	14.5	5	.	2	19
EGMONT	21	15	21.0	23	20.0	22	20.0	16	19	18.0	1	.	4	20
TRACENTA	20	17	11.5	21	22.0	20	19.0	20	22	20.0	21	.	3	21
ALLURE	23	19	16.0	22	18.0	21	22.0	22	20	22.0	.	.	14	22
BR 1518	22	20	22.0	20	14.5	23	23.0	23	23	21.0	19	6.0	23	23

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 MODIFIED 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
REGENT (NORMARC 101)	6.11	6.01	6.45	6.19	6.29
PROVIDENCE	5.73	6.33	6.98	6.61	6.27
SR 1020	5.87	6.10	6.51	6.24	6.19
PUTTER	5.79	6.17	6.64	6.15	6.13
88.CBE	5.77	5.90	6.46	6.28	6.12
VIPER (88.CBL)	5.55	6.12	6.57	6.25	6.03
PENNLINKS	5.65	6.09	6.31	6.06	6.02
COBRA	5.47	5.92	6.46	6.25	5.99
LOPEZ (WVPB 89-D-15)	5.57	6.11	6.22	5.75	5.96
PRO/CUP (FORBES 89-12)	5.35	6.08	6.40	6.06	5.95
PENNCROSS	5.72	5.78	6.27	5.80	5.90
TAMU 88-1	5.44	5.65	6.11	5.95	5.81
MSCB-8	5.44	5.95	6.10	5.61	5.76
18TH GREEN (UM 84-01)	5.31	5.63	5.90	5.87	5.75
CARMEN	5.28	5.66	6.07	5.69	5.70
MSCB-6	5.19	5.62	6.20	5.67	5.61
NATIONAL	4.88	5.56	5.87	5.27	5.42
EMERALD	5.13	5.42	5.63	5.25	5.25
BARDOT	4.65	5.01	5.30	4.83	4.95
EGMONT	4.53	5.29	5.11	4.58	4.86
TRACENTA	4.35	4.80	5.27	4.88	4.85
ALLURE	4.04	4.69	5.05	4.72	4.65
BR 1518	3.62	4.25	4.82	4.85	4.45
LSD VALUE	0.45	0.30	0.24	0.24	0.22

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 MODIFIED 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
REGENT (NORMARC 101)	1	8	7	6	1
PROVIDENCE	5	1	1	1	2
SR 1020	2	5	4	5	3
PUTTER	3	2	2	7	4
88.CBE	4	11	5	2	5
VIPER (88.CBL)	9	3	3	3	6
PENNLINKS	7	6	9	8	7
COBRA	10	10	6	4	8
LOPEZ (WVPB 89-D-15)	8	4	11	13	9
PRO/CUP (FORBES 89-12)	13	7	8	9	10
PENNCROSS	6	12	10	12	11
TAMU 88-1	11	14	13	10	12
MSCB-8	12	9	14	16	13
18TH GREEN (UM 84-01)	14	15	16	11	14
CARMEN	15	13	15	14	15
MSCB-6	16	16	12	15	16
NATIONAL	18	17	17	17	17
EMERALD	17	18	18	18	18
BARDOT	19	20	19	21	19
EGMONT	20	19	21	23	20
TRACENTA	21	21	20	19	21
ALLURE	22	22	22	22	22
BR 1518	23	23	23	20	23

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 MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	AZ1	CA1	KY1	LA1	WA3	MEAN
PROVIDENCE	7.8	.	8.0	9.0	7.7	8.1
18TH GREEN (UM 84-01)	8.2	6.7	8.7	9.0	7.5	8.0
VIPER (88.CBL)	7.7	.	7.5	9.0	7.5	7.9
PRO/CUP (FORBES 89-12)	8.0	7.3	7.3	9.0	7.7	7.9
REGENT (NORMARC 101)	7.5	7.7	6.8	9.0	7.2	7.6
88.CBE	7.8	6.7	7.5	9.0	7.0	7.6
SR 1020	7.2	7.3	7.0	9.0	6.7	7.4
LOPEZ (WVPB 89-D-15)	7.3	6.3	6.8	9.0	7.0	7.3
COBRA	7.2	7.0	7.0	9.0	6.0	7.2
PUTTER	6.8	7.0	7.0	9.0	6.3	7.2
PENNCROSS	7.0	7.0	6.5	8.7	6.2	7.1
PENNLINKS	7.3	6.7	6.2	9.0	6.0	7.0
TAMU 88-1	6.8	7.3	6.2	8.7	5.7	6.9
MSCB-6	6.7	.	6.2	9.0	5.7	6.9
MSCB-8	6.8	6.7	6.7	9.0	5.2	6.9
CARMEN	6.5	6.3	6.8	9.0	5.7	6.9
NATIONAL	5.8	5.3	6.8	9.0	6.2	6.6
EMERALD	5.2	5.7	4.8	9.0	5.3	6.0
TRACENTA	5.7	4.3	5.2	8.0	6.0	5.8
BR 1518	6.5	5.0	3.8	8.3	5.2	5.8
BARDOT	6.2	3.3	4.7	8.3	5.7	5.6
ALLURE	5.3	4.7	4.5	8.0	4.8	5.5
EGMONT	5.7	4.7	3.8	8.0	4.2	5.3
LSD VALUE	1.0	1.8	1.3	0.4	1.7	0.6

1/ GENETIC COLOR RATED AT "AZ1" & "CA1" IN 1993 AND AT "KY1", "LA1" & "WA3" IN 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 7. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	AZ1	MA1	WA3	MEAN
ALLURE	6.8	8.0	8.0	7.6
BARDOT	6.7	7.7	7.0	7.1
TRACENTA	7.2	7.3	5.7	6.7
BR 1518	7.2	6.7	6.0	6.6
EGMONT	5.0	7.7	6.7	6.4
PUTTER	6.0	5.3	6.3	5.9
PROVIDENCE	7.2	4.0	6.3	5.8
88.CBE	8.0	4.7	4.3	5.7
VIPER (88.CBL)	7.7	4.7	4.3	5.6
PENNLINKS	6.2	5.0	5.0	5.4
COBRA	6.3	4.7	5.0	5.3
PRO/CUP (FORBES 89-12)	7.3	4.7	4.0	5.3
REGENT (NORMARC 101)	6.7	5.3	4.0	5.3
SR 1020	7.3	4.7	4.0	5.3
LOPEZ (WVPB 89-D-15)	6.5	5.0	4.0	5.2
PENNCROSS	6.5	4.7	4.3	5.2
18TH GREEN (UM 84-01)	7.7	4.0	3.3	5.0
MSCB-8	5.8	5.7	3.3	4.9
NATIONAL	6.0	5.7	3.0	4.9
CARMEN	6.8	5.0	2.7	4.8
MSCB-6	5.5	4.3	4.0	4.6
TAMU 88-1	6.2	4.3	3.0	4.5
EMERALD	6.0	4.3	2.7	4.3
LSD VALUE	1.1	2.0	1.4	0.8

1/ SPRING GREENUP RATED AT "AZ1" & "WA3" IN 1993, AT "MA1" IN 1991.

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 MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	AZ1	CA1	MEAN
EGMONT	6.8	8.0	7.4
SR 1020	7.2	7.0	7.1
CARMEN	7.8	6.3	7.1
VIPER (88.CBL)	7.0	.	7.0
PENNLINKS	6.8	6.7	6.8
LOPEZ (W/PB 89-D-15)	6.7	6.7	6.7
MSCB-6	6.7	.	6.7
PROVIDENCE	6.7	.	6.7
PRO/CUP (FORBES 89-12)	7.0	6.3	6.7
TAMU 88-1	7.3	6.0	6.7
COBRA	7.2	6.0	6.6
88.CBE	6.8	6.3	6.6
BARDOT	5.7	7.3	6.5
MSCB-8	6.7	6.3	6.5
ALLURE	6.5	6.3	6.4
PUTTER	6.5	6.3	6.4
18TH GREEN (UM 84-01)	6.3	6.3	6.3
REGENT (NORMARC 101)	6.5	5.7	6.1
NATIONAL	6.5	5.3	5.9
PENNCROSS	5.8	6.0	5.9
TRACENTA	6.0	5.7	5.8
BR 1518	5.2	6.3	5.8
EMERALD	5.7	5.7	5.7
LSD VALUE	1.1	1.0	0.9

1/ LEAF TEXTURE RATED AT "AZ1" IN 1992 & 1993 AND AT "CA1" 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 9. WEAR TOLERANCE (OCTOBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/

NAME	TX1
88.CBE	7.3
PENNLINKS	6.7
COBRA	6.0
PRO/CUP (FORBES 89-12)	6.0
PROVIDENCE	6.0
VIPER (88.CBL)	6.0
18TH GREEN (UM 84-01)	5.3
PENNCROSS	5.3
REGENT (NORMARC 101)	5.0
LOPEZ (WVPB 89-D-15)	4.7
MSCB-6	4.7
SR 1020	4.7
TAMU 88-1	4.3
BR 1518	4.0
NATIONAL	3.7
CARMEN	3.3
PUTTER	3.0
MSCB-8	2.7
LSD VALUE	2.9

1/ WEAR TOLERANCE (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 10. WEAR TOLERANCE (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/

NAME	TX1
18TH GREEN (UM 84-01)	7.7
88.CBE	7.7
COBRA	7.7
CARMEN	7.3
PENNLINKS	7.3
VIPER (88.CBL)	7.3
LOPEZ (WVPB 89-D-15)	7.0
MSCB-8	7.0
PRO/CUP (FORBES 89-12)	7.0
PUTTER	7.0
TAMU 88-1	7.0
BR 1518	6.7
MSCB-6	6.7
NATIONAL	6.7
PENNCROSS	6.7
REGENT (NORMARC 101)	6.7
SR 1020	6.7
PROVIDENCE	6.3
LSD VALUE	1.7

1/ WEAR TOLERANCE (NOVEMBER) 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 11. WEAR TOLERANCE (DECEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 2/

NAME	TX2
PENNLINKS	7.7
SR 1020	7.7
18TH GREEN (UM 84-01)	7.3
88.CBE	7.3
PENNCROSS	7.3
PRO/CUP (FORBES 89-12)	7.3
CARMEN	7.0
COBRA	7.0
MSCB-6	7.0
VIPER (88.CBL)	7.0
TAMU 88-1	6.7
LOPEZ (WVPB 89-D-15)	6.3
MSCB-8	6.3
PROVIDENCE	6.3
REGENT (NORMARC 101)	6.3
BR 1518	6.0
PUTTER	6.0
NATIONAL	5.7
LSD VALUE	2.4

1/ WEAR TOLERANCE (DECEMBER) 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 12. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN
1990-1993 DATA

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

NAME	AZ1	FL1	WA3	MEAN
EMERALD	7.3	7.7	9.0	8.0
REGENT (NORMARC 101)	8.3	.	5.3	6.8
TAMU 88-1	8.0	2.7	8.7	6.4
PENNCROSS	8.0	2.7	8.3	6.3
COBRA	8.0	5.0	5.3	6.1
BR 1518	7.7	2.3	8.0	6.0
MSCB-6	8.0	2.7	7.3	6.0
EGMONT	7.7	4.0	6.0	5.9
VIPER (88.CBL)	7.7	2.3	6.7	5.6
ALLURE	7.3	2.0	7.3	5.6
PENNLINKS	7.7	3.0	5.7	5.4
MSCB-8	8.3	2.7	5.3	5.4
SR 1020	8.0	2.0	6.3	5.4
LOPEZ (WVPB 89-D-15)	8.3	3.0	4.7	5.3
PRO/CUP (FORBES 89-12)	8.0	4.7	3.3	5.3
PROVIDENCE	7.3	4.7	4.0	5.3
BARDOT	7.7	3.0	4.7	5.1
NATIONAL	8.3	3.0	4.0	5.1
PUTTER	9.0	3.3	3.0	5.1
88.CBE	7.3	2.3	5.7	5.1
TRACENTA	7.3	1.3	4.0	4.2
CARMEN	7.0	1.7	2.7	3.8
18TH GREEN (UM 84-01)	7.3	1.7	1.3	3.4
LSD VALUE	1.1	3.3	3.3	1.6

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 13. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	CA1	GA1	WA3	MEAN
PROVIDENCE	.	8.3	7.0	7.7
SR 1020	6.5	8.0	7.8	7.4
EGMONT	6.5	7.0	8.5	7.3
PUTTER	6.3	8.0	7.7	7.3
PENNLINKS	6.3	8.0	7.2	7.2
VIPEER (88.CBL)	.	8.0	6.3	7.2
COBRA	6.5	7.7	6.0	6.7
TRACENTA	5.5	8.0	6.7	6.7
REGENT (NORMARC 101)	6.3	8.0	5.8	6.7
CARMEN	6.3	7.7	6.0	6.7
BARDOT	5.8	6.7	7.3	6.6
PRO/CUP (FORBES 89-12)	6.3	8.0	5.3	6.6
18TH GREEN (UM 84-01)	6.2	7.7	5.7	6.5
88.CBE	6.2	8.0	5.2	6.4
TAMU 88-1	6.2	8.0	5.0	6.4
MSCB-8	6.5	8.0	4.2	6.2
ALLURE	5.3	7.3	6.0	6.2
LOPEZ (WVPB 89-D-15)	6.5	7.7	4.0	6.1
PENNCROSS	6.5	8.0	3.3	5.9
NATIONAL	6.0	8.0	3.5	5.8
MSCB-6	.	7.7	3.7	5.7
EMERALD	5.8	7.3	3.7	5.6
BR 1518	5.3	7.0	3.0	5.1
LSD VALUE	0.9	0.7	1.2	0.7

1/ SPRING DENSITY RATED AT "CA1" IN 1991 & 1993, AT "GA1" IN 1992 AND AT "WA3" 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 14. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	AZ1	CA1	GA1	WA3	MEAN
PROVIDENCE	8.3	.	7.0	8.3	7.9
PUTTER	8.7	7.0	6.7	9.0	7.8
VIPER (88.CBL)	8.3	.	6.7	8.3	7.8
PRO/CUP (FORBES 89-12)	8.3	6.7	7.3	8.7	7.8
88.CBE	8.0	6.7	7.3	8.3	7.6
REGENT (NORMARC 101)	7.7	7.0	6.7	8.0	7.3
CARMEN	7.3	6.5	7.3	8.0	7.3
18TH GREEN (UM 84-01)	7.7	7.0	6.7	7.7	7.3
COBRA	7.7	6.5	6.3	8.3	7.2
LOPEZ (WVPB 89-D-15)	8.3	6.5	7.7	6.3	7.2
PENNLINKS	7.7	6.3	6.3	8.3	7.2
SR 1020	8.3	6.5	5.3	8.0	7.0
EMERALD	7.3	6.3	6.0	8.3	7.0
NATIONAL	6.7	6.5	7.0	7.3	6.9
MSCB-8	6.3	7.2	6.3	6.0	6.5
TAMU 88-1	6.7	6.7	5.3	7.0	6.4
PENNCROSS	6.0	6.5	7.0	5.0	6.1
MSCB-6	6.3	.	6.7	5.0	6.0
BARDOT	4.7	5.5	5.3	7.7	5.8
TRACENTA	4.7	5.2	6.3	7.0	5.8
EGMONT	4.3	5.8	5.3	6.3	5.5
ALLURE	3.3	4.5	6.3	5.3	4.9
BR 1518	4.7	4.2	5.7	2.0	4.1
LSD VALUE	1.4	1.1	1.8	1.4	0.7

1/ SUMMER DENSITY RATED AT "AZ1" IN 1993, AT "CA1" IN 1991 & 1993, AT "GA1" IN 1992 AND AT "WA3" IN 1991.

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. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	CA1	GA1	WA3	MEAN
PRO/CUP (FORBES 89-12)	7.2	8.0	6.3	7.2
PROVIDENCE	.	7.7	6.7	7.2
PENNLINKS	7.3	8.0	6.0	7.1
88.CBE	7.0	8.0	6.0	7.0
REGENT (NORMARC 101)	7.2	8.0	5.7	6.9
SR 1020	6.8	7.7	6.3	6.9
18TH GREEN (UM 84-01)	7.0	7.7	6.0	6.9
PUTTER	7.3	7.0	6.3	6.9
VIPER (88.CBL)	.	7.7	6.0	6.8
COBRA	7.2	7.7	5.7	6.8
EGMONT	7.2	6.3	7.0	6.8
TAMU 88-1	7.2	6.3	6.7	6.7
PENNCROSS	7.2	8.0	4.7	6.6
LOPEZ (WVPB 89-D-15)	7.0	7.0	5.7	6.6
CARMEN	7.5	6.7	5.3	6.5
NATIONAL	6.8	8.0	4.7	6.5
BARDOT	6.5	7.0	5.3	6.3
EMERALD	7.0	7.0	4.7	6.2
MSCB-8	7.3	7.3	4.0	6.2
TRACENTA	6.5	7.0	4.7	6.1
ALLURE	7.0	7.0	3.7	5.9
BR 1518	6.3	7.7	3.0	5.7
MSCB-6	.	7.0	4.0	5.5
LSD VALUE	0.7	1.2	1.0	0.5

1/ FALL DENSITY RATED AT "CA1" IN 1991 & 1993 AND AT "GA1" & "WA3" 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 16. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MA1	TX1	MEAN
EGMONT	55.0	.	55.0
EMERALD	51.7	.	51.7
TRACENTA	51.7	.	51.7
BARDOT	50.0	.	50.0
REGENT (NORMARC 101)	73.3	21.7	47.5
PENNCROSS	60.0	15.0	37.5
PUTTER	60.0	14.3	37.2
ALLURE	36.7	.	36.7
88.CBE	55.0	11.0	33.0
TAMU 88-1	53.3	12.7	33.0
SR 1020	56.7	8.3	32.5
PROVIDENCE	50.0	9.3	29.7
NATIONAL	48.3	8.3	28.3
LOPEZ (WVPB 89-D-15)	43.3	10.0	26.7
PRO/CUP (FORBES 89-12)	40.0	12.7	26.3
COBRA	36.7	13.3	25.0
VIPER (88.CBL)	40.0	9.3	24.7
PENNLINKS	35.0	11.7	23.3
MSCB-8	31.7	13.3	22.5
MSCB-6	35.0	9.3	22.2
CARMEN	36.7	6.0	21.3
18TH GREEN (UM 84-01)	21.7	15.0	18.3
BR 1518	21.7	10.3	16.0
LSD VALUE	25.9	10.2	16.1

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

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MA1
FUTTER	91.7
REGENT (NORMARC 101)	86.0
SR 1020	83.3
FENNCROSS	82.7
BARDOT	81.7
88.CBE	80.0
CARMEN	80.0
PROVIDENCE	80.0
FENNLINKS	76.7
EGMONT	75.0
PRO/CUP (FORBES 89-12)	75.0
TAMU 88-1	75.0
EMERALD	73.3
LOPEZ (WVPB 89-D-15)	73.3
NATIONAL	73.3
MSCB-8	71.7
VIPER (88.CBL)	66.7
MSCB-6	65.0
COBRA	63.3
18TH GREEN (UM 84-01)	61.7
ALLURE	58.3
BR 1518	55.0
TRACENTA	55.0
LSD VALUE	16.8

1/ PERCENT LIVING GROUND COVER (SUMMER) 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 18. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	CA1
COBRA	98.7
MSCB-8	98.7
NATIONAL	98.7
PRO/CUP (FORBES 89-12)	98.7
18TH GREEN (UM 84-01)	98.0
BR 1518	98.0
SR 1020	98.0
TRACENTA	98.0
REGENT (NORMARC 101)	97.7
TAMU 88-1	97.7
CARMEN	97.0
EMERALD	97.0
LOPEZ (WVPB 89-D-15)	97.0
PENNCROSS	97.0
EGMONT	96.3
88.CBE	96.0
BARDOT	96.0
PENNLINKS	95.7
FUTTER	95.3
ALLURE	92.0
LSD VALUE	3.8

1/ PERCENT LIVING GROUND COVER (FALL) 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 19. FROST TOLERANCE RATINGS OF BENIGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	WA3
ALLURE	7.7
BARDOT	7.7
EGMONT	7.7
TRACENTA	7.3
BR 1518	6.0
PENNCROSS	5.7
TAMU 88-1	5.7
LOPEZ (WVPB 89-D-15)	5.3
COBRA	5.0
EMERALD	5.0
PROVIDENCE	5.0
PUTTER	5.0
CARMEN	4.7
PENNLINKS	4.7
SR 1020	4.7
PRO/CUP (FORBES 89-12)	4.3
REGENT (NORMARC 101)	4.3
VIPER (88.CBL)	4.3
88.CBE	3.7
MSCB-6	3.7
MSCB-8	3.7
18TH GREEN (UM 84-01)	3.3
NATIONAL	2.0
LSD VALUE	1.1

1/ FROST TOLERANCE 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 20. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	AZ1	WA3	MEAN
SR 1020	7.7	6.7	7.2
PUTTER	6.0	7.3	6.7
CARMEN	7.7	5.3	6.5
PROVIDENCE	7.7	5.3	6.5
EGMONT	5.0	7.7	6.3
VIPER (88.CBL)	7.0	5.7	6.3
PRO/CUP (FORBES 89-12)	8.7	4.0	6.3
TRACENTA	6.3	6.3	6.3
88.CBE	7.7	4.7	6.2
LOPEZ (WPB 89-D-15)	7.0	5.3	6.2
PENNLINKS	7.0	5.3	6.2
BR 1518	5.3	6.7	6.0
NATIONAL	6.7	5.0	5.8
ALLURE	5.3	6.0	5.7
BARDOT	5.3	6.0	5.7
COBRA	6.3	5.0	5.7
REGENT (NORMARC 101)	6.7	4.3	5.5
TAMU 88-1	6.0	5.0	5.5
EMERALD	4.7	5.0	4.8
PENNCROSS	6.3	2.3	4.3
MSCB-8	5.7	2.7	4.2
18TH GREEN (UM 84-01)	6.3	2.0	4.2
MSCB-6	6.3	2.0	4.2
LSD VALUE	1.1	1.4	0.9

1/ WINTER COLOR RATED AT "AZ1" IN 1993 AND AT "WA3" IN 1991.

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. DROUGHT TOLERANCE (DORMANCY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	MS1
BARDOT	7.3
EGMONT	7.3
TRACENTA	7.3
88.CBE	6.0
BR 1518	5.7
MSCB-6	5.7
PENNCROSS	5.7
CARMEN	5.3
18TH GREEN (UM 84-01)	4.7
EMERALD	4.7
PENNLINKS	4.7
REGENT (NORMARC 101)	4.7
ALLURE	4.3
LOPEZ (WVPB 89-D-15)	4.3
TAMU 88-1	4.3
VIPER (88.CBL)	4.3
PRO/CUP (FORBES 89-12)	4.0
PUTTER	4.0
SR 1020	4.0
COBRA	3.7
NATIONAL	3.3
MSCB-8	2.7
PROVIDENCE	2.3
LSD VALUE	2.3

1/ DROUGHT TOLERANCE (DORMANCY) 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 22. THATCH MEASUREMENTS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

THATCH MEASUREMENTS IN MILLIMETERS 2/

NAME	AZ1	CA1	MEAN
TAMU 88-1	14.3	35.7	25.0
COBRA	14.7	34.7	24.7
PUTTER	16.7	31.0	23.8
PRO/CUP (FORBES 89-12)	14.0	32.7	23.3
EMERALD	13.0	33.5	23.3
PENNCROSS	12.0	34.5	23.3
REGENT (NORMARC 101)	13.3	32.0	22.7
SR 1020	13.0	31.5	22.3
PENNLINKS	12.3	30.7	21.5
88.CBE	13.7	29.2	21.4
CARMEN	12.3	30.0	21.2
MSCB-8	11.7	30.3	21.0
NATIONAL	12.7	28.5	20.6
LOPEZ (WVPB 89-D-15)	12.0	28.5	20.3
BARDOT	8.3	31.2	19.8
18TH GREEN (UM 84-01)	9.3	29.8	19.6
EGMONT	4.7	33.3	19.0
TRACENTA	6.3	31.3	18.8
ALLURE	6.0	29.3	17.7
BR 1518	6.0	28.0	17.0
VIPER (88.CBL)	14.3	.	14.3
MSCB-6	14.0	.	14.0
PROVIDENCE	14.0	.	14.0
LSD VALUE	3.2	10.6	8.1

1/ THATCH MEASUREMENTS RATED AT "AZ1" IN 1993 AND AT "CA1" 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 23. THATCH ASHED DRY WEIGHT OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

THATCH ASHED DRY WEIGHT: GRAMS/0.25 SQ.FT. 2/

NAME	WA3
MSCB-8	15.3
FUTTER	15.3
18TH GREEN (UM 84-01)	15.0
REGENT (NORMARC 101)	15.0
BARDOT	14.7
EGMONT	14.7
ALLURE	14.3
COBRA	14.3
MSCB-6	14.3
PROVIDENCE	14.3
TAMU 88-1	14.3
TRACENTA	14.3
PRO/CUP (FORBES 89-12)	14.0
88.CBE	13.7
EMERALD	13.7
PENNCROSS	13.7
PENNLINKS	13.7
SR 1020	13.7
ER 1518	13.3
LOPEZ (WVPB 89-D-15)	13.3
CARMEN	13.0
NATIONAL	13.0
VIPER (88.CBL)	13.0
LSD VALUE	2.7

1/ THATCH ASHED DRY WEIGHT 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 24. TYPHULA BLIGHT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	MA1	MI1	MEAN
88.CBE	4.0	6.0	5.0
VIPER (88.CBL)	4.3	5.7	5.0
ALLURE	2.0	7.7	4.8
BARDOT	2.0	7.7	4.8
BR 1518	2.3	7.3	4.8
EMERALD	3.3	6.3	4.8
EGMONT	2.0	7.0	4.5
TRACENTA	2.0	7.0	4.5
PUTTER	4.0	4.7	4.3
REGENT (NORMARC 101)	2.3	6.3	4.3
PENNLINKS	3.3	5.0	4.2
MSCB-6	2.7	5.3	4.0
PENNCROSS	2.7	5.3	4.0
PROVIDENCE	2.7	5.3	4.0
SR 1020	5.0	3.0	4.0
TAMU 88-1	3.7	4.3	4.0
CARMEN	4.7	3.0	3.8
MSCB-8	3.3	4.0	3.7
PRO/CUP (FORBES 89-12)	4.0	3.3	3.7
18TH GREEN (UM 84-01)	4.0	3.0	3.5
COBRA	2.3	4.7	3.5
NATIONAL	2.0	4.3	3.2
LOPEZ (WBPB 89-D-15)	2.3	2.7	2.5
LSD VALUE	1.8	1.6	1.2

1/ TYPHULA BLIGHT 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 25. FUSARIUM PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	WA3
ALLURE	9.0
BARDOT	9.0
BR 1518	9.0
EGMONT	9.0
EMERALD	9.0
TRACENTA	9.0
CARMEN	8.7
MSCB-6	8.7
MSCB-8	8.7
NATIONAL	8.7
PENNLINKS	8.7
88.CBE	8.3
COBRA	8.3
REGENT (NORMARC 101)	8.3
VIPER (88.CBL)	8.3
PENNCROSS	8.0
PRO/CUP (FORBES 89-12)	7.7
LOPEZ (WVPB 89-D-15)	7.3
PUTTER	7.3
TAMU 88-1	6.3
PROVIDENCE	6.0
SR 1020	5.7
18TH GREEN (UM 84-01)	4.7
LSD VALUE	2.0

1/ FUSARIUM 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 26. DISEASE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA 2/

DISEASE RATINGS 1-9; 9=NO DISEASE 3/

NAME	FL1	LA1	MEAN
88.CBE	7.0	8.0	7.5
REGENT (NORMARC 101)	.	7.0	7.0
TAMU 88-1	5.3	8.7	7.0
SR 1020	7.3	6.3	6.8
MSCB-8	5.7	7.7	6.7
18TH GREEN (UM 84-01)	8.0	5.3	6.7
PENNCROSS	5.3	8.0	6.7
CARMEN	6.3	6.7	6.5
LOPEZ (WVPB 89-D-15)	6.7	6.3	6.5
MSCB-6	5.3	7.7	6.5
PRO/CUP (FORBES 89-12)	7.0	6.0	6.5
PENNLINKS	5.7	7.0	6.3
TRACENTA	6.3	6.3	6.3
VIPER (88.CBL)	5.7	5.7	5.7
NATIONAL	5.3	6.0	5.7
PUTTER	6.3	5.0	5.7
BARDOT	5.0	5.7	5.3
COBRA	5.3	5.3	5.3
EGMONT	3.7	5.7	4.7
EMERALD	4.0	5.0	4.5
PROVIDENCE	4.3	3.7	4.0
ALLURE	5.0	2.7	3.8
BR 1518	2.3	1.0	1.7
LSD VALUE	2.6	3.0	2.0

1/ DISEASE RATED IN 1990 ONLY.

2/ AT THE ABOVE LOCATIONS, SEVERAL DISEASES WERE PRESENT SIMULTANEOUSLY AND THE DAMAGE CAUSED BY EACH DISEASE COULD NOT EASILY BE DETERMINED. THEREFORE, THE ABOVE RATINGS REFLECT AN OVERALL ASSESSMENT OF DAMAGE CAUSED BY SEVERAL DISEASES.

3/ 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. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	KS1	MI1	TX1	MEAN
ALLURE	9.0	7.0	.	8.0
BARDOT	9.0	7.0	.	8.0
EGMONT	9.0	6.0	.	7.5
TRACENTA	9.0	6.0	.	7.5
MSCB-8	9.0	8.3	4.7	7.3
EMERALD	8.7	5.7	.	7.2
MSCB-6	9.0	7.3	4.7	7.0
PROVIDENCE	9.0	7.3	4.3	6.9
TAMU 88-1	9.0	6.3	5.3	6.9
COBRA	9.0	6.3	5.0	6.8
88.CBE	9.0	7.0	4.0	6.7
NATIONAL	9.0	6.3	4.7	6.7
PENNCROSS	9.0	7.0	4.0	6.7
REGENT (NORMARC 101)	9.0	7.0	4.0	6.7
BR 1518	9.0	6.3	4.0	6.4
VIPER (88.CBL)	9.0	6.3	3.7	6.3
CARMEN	9.0	5.0	4.7	6.2
LOPEZ (WVPB 89-D-15)	9.0	5.7	4.0	6.2
PENNLINKS	9.0	7.3	2.3	6.2
PUTTER	9.0	5.3	4.3	6.2
SR 1020	7.7	4.7	6.0	6.1
PRO/CUP (FORBES 89-12)	9.0	5.0	1.7	5.2
18TH GREEN (UM 84-01)	5.7	3.7	4.3	4.6
LSD VALUE	1.1	2.3	3.0	1.3

1/ DOLLAR SPOT RATED AT "KS1" IN 1992 AND AT "MI1" & "TX1" 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 28. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

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

NAME	MA1
CARMEN	9.0
COBRA	9.0
MSCB-6	9.0
PENNCROSS	9.0
PENNLINKS	9.0
PRO/CUP (FORBES 89-12)	9.0
PROVIDENCE	9.0
REGENT (NORMARC 101)	9.0
SR 1020	9.0
LOPEZ (WVPB 89-D-15)	8.8
VIPER (88.CBL)	8.8
18TH GREEN (UM 84-01)	8.5
88.CBE	8.5
EMERALD	8.5
NATIONAL	8.5
MSCB-8	8.2
PUTTER	8.2
EGMONT	8.0
TAMU 88-1	8.0
ALLURE	7.3
BR 1518	6.8
BARDOT	5.0
TRACENTA	4.0
LSD VALUE	1.5

1/ BROWN PATCH 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 29. YELLOW TUFT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

YELLOW TUFT RATINGS 1-9; 9=NO DISEASE 2/

NAME	MI1
ALLURE	9.0
BARDOT	9.0
BR 1518	9.0
EGMONT	9.0
MSCB-6	9.0
PENNCROSS	9.0
PROVIDENCE	9.0
REGENT (NORMARC 101)	9.0
TRACENTA	9.0
VIPER (88.CBL)	9.0
COBRA	8.7
EMERALD	8.7
88.CBE	8.3
LOPEZ (WVPB 89-D-15)	8.3
MSCB-8	8.3
SR 1020	8.3
TAMU 88-1	8.3
PENNLINKS	8.0
PRO/CUP (FORBES 89-12)	8.0
NATIONAL	7.7
PUTTER	7.7
18TH GREEN (UM 84-01)	7.3
CARMEN	7.0
LSD VALUE	1.4

1/ YELLOW TUFT 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 30. PERCENT POA ANNUA (JANUARY) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	54.3
ALLURE	42.0
BARDOT	40.0
EGMONT	36.7
NATIONAL	36.7
88.CBE	35.7
PRO/CUP (FORBES 89-12)	33.7
TRACENTA	32.7
18TH GREEN (UM 84-01)	32.0
LOPEZ (WVPB 89-D-15)	16.3
CARMEN	15.7
MSCB-8	15.7
EMERALD	15.3
REGENT (NORMARC 101)	14.7
PENNCROSS	13.0
PENNLINKS	13.0
TAMU 88-1	13.0
SR 1020	11.7
COBRA	10.7
FUTTER	9.0
LSD VALUE	34.7

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	78.3
ALLURE	70.7
NATIONAL	62.7
BARDOT	61.0
18TH GREEN (UM 84-01)	53.3
TRACENTA	50.3
88.CBE	47.7
PRO/CUP (FORBES 89-12)	38.7
MSCB-8	31.7
EGMONT	29.0
CARMEN	27.3
EMERALD	26.7
PENNLINKS	26.3
PENNCROSS	24.7
LOPEZ (WVPB 89-D-15)	24.0
REGENT (NORMARC 101)	21.0
FUTTER	13.3
COBRA	12.7
TAMU 88-1	12.7
SR 1020	10.7
LSD VALUE	33.2

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	69.3
18TH GREEN (UM 84-01)	57.7
ALLURE	57.7
BARDOT	55.7
NATIONAL	54.3
88.CBE	47.3
TRACENTA	47.0
PRO/CUP (FORBES 89-12)	38.3
EMERALD	29.3
PENNLINKS	27.0
EGMONT	26.3
MSCB-8	25.7
REGENT (NORMARC 101)	24.3
CARMEN	23.7
LOPEZ (WVPB 89-D-15)	21.3
PENNCROSS	20.0
COBRA	16.0
SR 1020	15.7
TAMU 88-1	14.3
FUTTER	13.3
LSD VALUE	26.7

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
ALLURE	59.3
TRACENTA	58.8
BR 1518	58.5
18TH GREEN (UM 84-01)	54.8
BARDOT	50.0
NATIONAL	41.7
88.CBE	37.5
PRO/CUP (FORBES 89-12)	33.3
EGMONT	32.7
CARMEN	29.2
MSCB-8	26.7
LOPEZ (WVPB 89-D-15)	24.0
EMERALD	23.3
PENNLINKS	18.0
COBRA	16.5
REGENT (NORMARC 101)	16.0
TAMU 88-1	10.5
FUTTER	10.3
PENNCROSS	9.8
SR 1020	4.8
LSD VALUE	20.4

1/ PERCENT POA ANNUA (MAY) 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 34. PERCENT POA ANNUA (JUNE) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
TRACENTA	36.7
ALLURE	33.3
BR 1518	33.3
NATIONAL	33.3
88.CBE	25.0
18TH GREEN (UM 84-01)	23.3
BARDOT	23.3
EGMONT	20.0
PRO/CUP (FORBES 89-12)	20.0
CARMEN	15.0
EMERALD	15.0
LOPEZ (WVPB 89-D-15)	15.0
COBRA	10.0
FUTTER	10.0
REGENT (NORMARC 101)	10.0
MSCB-8	5.0
PENNCROSS	5.0
PENNLINKS	5.0
TAMU 88-1	5.0
SR 1020	3.3
LSD VALUE	16.7

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1	WA3	MEAN
BR 1518	54.7	48.7	51.7
ALLURE	57.5	34.3	45.9
TRACENTA	60.7	21.7	41.2
BARDOT	49.5	25.3	37.4
NATIONAL	44.7	19.7	32.2
EMERALD	20.0	39.7	29.8
88.CBE	35.2	17.7	26.4
MSCB-6	.	24.7	24.7
MSCB-8	18.7	26.0	22.3
CARMEN	20.8	23.7	22.3
18TH GREEN (UM 84-01)	25.3	16.0	20.7
LOPEZ (WVPB 89-D-15)	22.8	12.7	17.8
EGMONT	24.5	9.3	16.9
PRO/CUP (FORBES 89-12)	20.5	12.3	16.4
PENNCROSS	17.0	13.3	15.2
TAMU 88-1	9.5	20.7	15.1
COBRA	10.8	18.0	14.4
PENNLINKS	15.3	13.0	14.2
VIPER (88.CBL)	.	14.0	14.0
REGENT (NORMARC 101)	14.8	10.0	12.4
SR 1020	7.3	9.3	8.3
PROVIDENCE	.	7.7	7.7
PUTTER	8.0	7.3	7.7
LSD VALUE	21.1	11.8	16.6

1/ PERCENT POA ANNUA (JULY) 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 36. PERCENT POA ANNUA (AUGUST) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A MODIFIED SOIL GREEN 1/
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
ALLURE	37.7
ER 1518	36.0
NATIONAL	28.3
TRACENTA	26.0
88.CBE	22.7
BARDOT	22.7
18TH GREEN (UM 84-01)	19.0
PRO/CUP (FORBES 89-12)	19.0
EGMONT	13.0
LOPEZ (WVPB 89-D-15)	12.7
MSCB-8	12.3
REGENT (NORMARC 101)	11.7
EMERALD	10.7
PENNCROSS	10.7
CARMEN	10.3
SR 1020	8.0
TAMU 88-1	7.3
PENNLINKS	6.7
COBRA	6.3
FUTTER	5.3
LSD VALUE	16.7

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
ALLURE	31.7
ER 1518	31.0
BARDOT	27.7
NATIONAL	27.3
TRACENTA	24.3
88.CBE	23.3
18TH GREEN (UM 84-01)	19.0
EGMONT	15.7
CARMEN	12.3
EMERALD	12.3
LOPEZ (WVPB 89-D-15)	10.7
PRO/CUP (FORBES 89-12)	10.7
MSCB-8	10.3
REGENT (NORMARC 101)	10.0
PENNCROSS	9.7
TAMU 88-1	7.0
SR 1020	6.7
COBRA	6.0
FUTTER	5.7
PENNLINKS	5.3
LSD VALUE	12.3

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

PERCENT POA ANNUA: LOCATIONS 2/

NAME	CA1
BR 1518	71.7
NATIONAL	65.3
TRACENTA	64.7
CARMEN	54.3
18TH GREEN (UM 84-01)	53.3
BARDOT	50.0
EGMONT	49.7
LOPEZ (WVPB 89-D-15)	44.3
SR 1020	43.7
88.CBE	43.0
EMERALD	41.0
TAMU 88-1	39.0
MSCB-8	38.7
ALLURE	37.7
PRO/CUP (FORBES 89-12)	37.7
PENNCROSS	33.7
PENNLINKS	33.7
FUTTER	33.3
REGENT (NORMARC 101)	24.0
COBRA	18.0
ISD VALUE	33.8

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

PERCENT POA ANNUA: LOCATIONS			
NAME	CA1	WA3	MEAN
BR 1518	53.3	48.7	51.0
ALLURE	48.6	34.3	41.5
TRACENTA	46.2	21.7	33.9
BARDOT	42.1	25.3	33.7
NATIONAL	42.8	19.7	31.3
EMERALD	20.8	39.7	30.2
18TH GREEN (UM 84-01)	37.1	16.0	26.6
88.CBE	34.7	17.7	26.2
MSCB-6	.	24.7	24.7
CARMEN	22.8	23.7	23.2
MSCB-8	20.2	26.0	23.1
PRO/CUP (FORBES 89-12)	27.1	12.3	19.7
EGMONT	26.8	9.3	18.1
LOPEZ (WVPB 89-D-15)	21.0	12.7	16.8
TAMU 88-1	12.0	20.7	16.3
COBRA	11.8	18.0	14.9
PENNLINKS	16.0	13.0	14.5
PENNCROSS	14.9	13.3	14.1
VIPER (88.CBL)	.	14.0	14.0
REGENT (NORMARC 101)	15.7	10.0	12.9
SR 1020	10.7	9.3	10.0
PUTTER	11.1	7.3	9.2
PROVIDENCE	.	7.7	7.7
LSD VALUE	16.9	11.8	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).