

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, one member from the Golf Course Superintendents Association of America (GCSAA), an executive director and a special projects 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 - Kevin N. Morris, National Turfgrass Federation, Inc.

Special Projects Coordinator - Dr. Robert Shearman, University of Nebraska

CURRENT POLICY COMMITTEE MEMBERS:

Dr. A. Douglas Brede, Jacklin Seed Company
Dr. David Chalmers, Virginia Tech University
Dr. Thomas Fermanian, University of Illinois
Dr. Donald Floyd, Pickseed West, Inc.
Mr. Al Gardner, Gardner Turfgrass, Inc.
Dr. Michael Kenna, USGA Green Section
Dr. Anthony Koski, Colorado State University
Dr. Peter Landschoot, Penn State University
Dr. Jeff Nus, Golf Course Superintendents Association of America

FOR ADDITIONAL REPORTS OR INFORMATION WRITE:

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

CONTENTS

1993 National Bentgrass (Fairway/Tee) Test - 1994-97 data

LOCATIONS SUBMITTING DATA FOR 1994-97.....	1
NATIONAL BENTGRASS (FAIRWAY/TEE) TEST, 1993 - Entries and Sponsors.....	2
Table A - 1994-97 Locations, Site Descriptions and Management Practices in the 1993 National Bentgrass (Fairway/Tee) Test.....	3
Table B - Locations and Data Collected in 1994-97.....	4
Table 1 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Twenty-One Locations in the U. S and Canada.....	7
Table 2 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars For Each Month Grown on a Fairway or Tee at Twenty-One Locations in the U. S. and Canada.....	8
Table 3 - Ranking of Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Twenty-One Locations in the U. S. and Canada.....	9
Table 4 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee for Each Year in the U. S and Canada.....	10
Table 5 - Ranking of Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee for Each Year in the U. S and Canada....	11
Table 6 - Genetic Color Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	12
Table 7 - Spring Greenup Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	13
Table 8 - Leaf Texture Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	14
Table 9 - Wear Tolerance Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	15
Table 10- Seedling Vigor Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	16
Table 11- Spring Density Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	17
Table 12- Summer Density Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	18
Table 13- Fall Density Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	19
Table 14 - Percent Living Ground Cover (Spring) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	20

CONTENTS (Continued)

Table 15 - Percent Living Ground Cover (Summer) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	21
Table 16 - Percent Living Ground Cover (Fall) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	22
Table 17 - Winter Color Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	23
Table 18 - Percent Winter Kill Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	24
Table 19 - Thatch Measurements of Bentgrass Cultivars Grown on a Fairway or Tee.....	25
Table 20 - Typhula Blight Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	26
Table 21 - Fusarium Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	27
Table 22 - Leaf Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	28
Table 23 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	29
Table 24 - Brown Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	30
Table 25 - Percent Dollar Spot (June) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	31
Table 26 - Black Cutworm Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	32
Table 27 - Seedhead Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	33
Table 28 - Percent Typhula Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	34
Table 29 - Winter Density Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	35
Table 30 - Percent Poa Annua (May) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	36
Table 31 - Poa Annua Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	37

CONTENTS (Continued)

Table 32 - Scalping Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	38
Table 33 - Dormancy Uniformity (December) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	39
Table 34 - Fall Verdure Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	40
Table 35 - Winter Verdure Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	41
Table 36 - Vertical Growth Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	42
Table 37 - Thatch Ashed Dry Weight Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	43
Table 38 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Madison, Wisconsin.....	44
Table 39 - Pythium Blight Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Charlottesville, Virginia.....	45

LOCATIONS SUBMITTING DATA FOR 1994-97

<u>State</u>	<u>Location</u>	<u>Code</u>
Iowa	Ames	IA1
Illinois	Urbana	IL1
Indiana	West Lafayette	IN1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
Massachusetts	Amherst	MA1
Manitoba	Winnipeg	MB1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Michigan	East Lansing	MI1
Missouri	Columbia (Traffic)	MO1
Missouri	Columbia (No Traffic)	MO2
New Hampshire	Durham	NH1
New Jersey	North Brunswick	NJ1
Ohio	Columbus	OH1
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
Virginia	Charlottesville (Birdwood Country Club)	VA8
Washington	Pullman	WA1
Washington	Puyallup	WA3
Wisconsin	Madison	WI1

1993 NATIONAL BENTGRASS TEST
(Fairway/Tee)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	18th Green	creeping	Zajac Performance Seeds/ Johnson Seeds, Ltd.
2	BAR As 492	creeping	Barenbrug Holland
3	BAR Ws 42102	creeping	Barenbrug Holland
4	Trueline	creeping	Turf Merchants
5	Providence	creeping	Seed Research of OR, Inc.
6	Seaside	creeping	Standard entry
7	Cato	creeping	Pickseed West, Inc.
8	Exeter	colonial	Standard entry
9	PRO/CUP	creeping	Forbes Seed & Grain, Inc.
10	Crenshaw	creeping	Loft's Seed, Inc.
11	Southshore	creeping	Loft's Seed, Inc.
12	SR 7100	colonial	Seed Research of OR, Inc.
13	Penncross	creeping	Standard entry
14	Seaside II (DF-1)	creeping	Tee-2-Green Corp.
15	Penn G-2 (G-2)	creeping	LESCO, Inc.
16	Penn G-6 (G-6)	creeping	Tee-2-Green Corp.
17	Penneagle	creeping	Tee-2-Green Corp.
18	Lopez	creeping	Finelawn Research, Inc.
19	Tendenz	colonial	Finelawn Research, Inc.
20	ISI-At-90162	colonial	International Seeds, Inc.
21	Tiger (OM-At-90163)	colonial	O.M. Scott & Sons

TABLE A.

1994-97 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1993 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
IA1	SILTY CLAY LOAM	7.1-7.5	0-60	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	0-60	241-375	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS2	SANDY LOAM	6.6-7.0	61-150	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MA1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MB1	SILTY CLAY AND CLAY	7.6-8.5	61-150	501+	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MI1	SANDY LOAM	7.1-7.5	61-150	0-150	5.1-6.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MO1	SANDY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MO2	SANDY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NH1	LOAM	5.6-6.0	61-150	151-240	3.1-4.0	PARTIAL SHADE	0.6-1.0	TO PREVENT STRESS
NJ1	SANDY LOAM	5.6-6.0	271-450	151-240	2.1-3.0	FULL SUN	0-0.5	TO PREVENT STRESS
OH1	SILTY CLAY LOAM	7.6-8.5	0-60	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	61-150	0-150	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
RI1	SILT LOAM AND SILT	6.6-7.0	61-150	0-150	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
UB1	SILT LOAM AND SILT	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
VA8	SANDY CLAY LOAM	4.6-5.5	0-60	0-150	1.1-2.0	FULL SUN	0.6-1.0	NO IRRIGATION
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SANDY LOAM	5.6-6.0	61-150	241-375	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WI1	SILT LOAM AND SILT	7.1-7.5	151-270	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1994-97

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE
IA1					X	X	X	X	X	X			X	X	X
IL1				X	X	X	X	X	X	X			X	X	X
IN1				X	X	X	X	X	X	X	X		X	X	X
KS2				X	X	X	X	X	X	X			X		X
KY1			X	X	X	X	X	X	X	X			X	X	X
MA1				X	X	X	X	X	X	X			X	X	
MB1					X	X	X	X	X	X			X	X	X
MD1				X	X	X	X	X	X	X			X		X
MI1					X	X	X	X	X	X	X		X	X	X
MO1				X	X	X	X	X	X	X	X		X	X	X
MO2				X	X	X	X	X	X	X	X		X	X	X
NH1					X			X			X		X		
NJ1			X	X	X	X	X	X	X	X	X	X	X	X	X
OH1					X	X	X	X	X	X	X		X	X	X
PA1				X	X	X	X	X	X	X			X	X	X
RI1				X	X	X	X	X	X	X	X		X	X	X
UB1				X	X	X	X	X	X	X	X		X	X	X
VA8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WA1				X	X	X	X	X	X	X			X	X	X
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WI1					X	X	X	X	X	X			X		

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 1994-97

LOCATION	WEAR TOLERANCE	SEEDLVIG	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	THATCH MEASURE- MENT	TYPHULA BLIGHT	FUSARIUM PATCH	LEAF SPOT	DOLLAR SPOT	BROWN PATCH	PERCENT DOLLAR SPOT
IA1										X						X	
IL1		X		X	X											X	
IN1						X									X	X	
KS2		X							X								
KY1																	X
MA1																X	
MB1			X	X	X												
MD1		X														X	
MI1													X		X		
MO1	X	X	X	X	X	X	X	X							X	X	
MO2		X	X	X	X	X	X	X							X	X	
NH1			X	X										X			
NJ1		X	X												X	X	
OH1						X	X	X		X	X				X	X	
PA1		X	X	X	X	X		X				X		X	X	X	
RI1		X													X	X	
UB1		X					X			X					X		
VA8						X		X	X								
WA1		X											X				
WA3		X	X	X	X			X	X				X				
WI1		X															

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 1994-97

LOCATION	BLACK CUTWORM	SEEDHEAD RATING	PERCENT TYPHULA BLIGHT	WINTER DENSITY	PERCENT POA ANNUA	POA ANNUA RATING	SCALPING RATING	DORMANCY UNIFORMITY (DECEMBER)	FALL VERDURE	WINTER VERDURE	VERTICAL GROWTH	THATCH ASHED DRY WEIGHT	DOLLAR SPOT JUNE	DOLLAR SPOT JULY	PYTHIUM BLIGHT JUNE	PYTHIUM BLIGHT AUGUST
IA1																
IL1					X											
IN1																
KS2																
KY1																
MA1																
MB1																
MD1																
MI1																
MO1																
MO2																
NH1																
NJ1							X	X								
OH1	X															
PA1		X	X			X	X									
RI1																
UB1																
VA8															X	X
WA1																
WA3				X					X	X	X	X				
WI1													X	X		

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT TWENTY-ONE LOCATIONS IN THE U.S. AND CANADA 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	KS2	KY1	MA1	MB1	MD1	MI1	MO1	MO2	NH1	NJ1	OH1	PA1	RI1	UB1	VA8	WA1	WA3	WI1	MEAN
* PROVIDENCE	6.5	5.7	5.8	7.1	7.2	6.0	6.9	6.5	5.4	7.4	7.6	6.6	6.5	7.7	7.1	5.0	5.6	5.4	7.2	5.6	6.6	6.4
* CATO	6.7	5.8	5.9	7.7	7.0	6.4	7.1	6.1	5.4	7.4	7.5	5.2	6.9	7.5	7.4	4.3	5.6	5.2	7.5	5.4	6.6	6.4
* PENNEAGLE	6.6	6.0	6.0	7.3	7.3	6.1	6.4	6.2	6.1	7.4	7.4	5.6	6.2	7.6	7.5	4.7	5.2	5.5	7.1	5.0	6.6	6.4
* SOUTHSORE	6.9	6.0	5.2	7.2	7.3	5.7	6.8	6.3	5.9	7.4	7.5	4.0	6.1	7.8	6.9	5.1	4.9	4.8	7.1	5.3	6.3	6.2
* PENN G-2 (G-2)	6.0	5.3	5.2	6.9	7.1	6.1	6.9	6.6	5.4	6.9	7.1	4.3	6.6	7.5	6.5	4.6	5.6	4.7	7.3	5.6	6.7	6.1
* CRENSHAW	6.7	5.7	4.9	7.3	6.8	6.1	7.1	6.4	5.6	7.2	7.3	5.1	5.9	7.5	6.4	4.8	5.3	4.8	7.4	5.0	6.0	6.1
* PENN G-6 (G-6)	6.2	6.1	5.3	6.7	7.3	5.9	6.4	6.1	5.4	7.0	7.3	4.0	6.9	7.6	6.9	4.2	5.7	4.9	7.1	5.2	6.7	6.1
BAR WS 42102	6.3	5.7	5.1	7.0	6.7	5.9	6.7	6.3	5.3	7.2	7.3	5.1	5.3	7.6	6.8	4.7	5.0	4.5	7.2	5.2	6.4	6.1
* PRO/CUP	6.3	5.4	5.1	6.9	7.3	6.0	6.6	6.2	5.4	7.2	7.4	5.8	4.9	7.4	5.8	5.1	4.9	5.0	7.1	5.2	6.2	6.1
* SEASIDE II (DF-1)	5.9	6.0	5.3	6.8	7.1	5.4	6.2	6.2	6.0	7.1	7.4	4.6	5.5	7.5	6.5	4.9	5.2	5.4	6.8	4.5	6.4	6.0
* TRUELINE	6.4	5.6	5.1	6.8	6.6	5.9	6.6	6.1	5.5	7.2	7.4	5.0	5.3	7.3	5.7	5.2	5.1	5.2	6.8	5.1	6.2	6.0
* PENNCROSS	5.9	5.5	5.9	7.1	7.2	5.7	6.5	5.9	5.4	7.3	7.3	5.4	4.8	7.1	5.6	4.5	4.5	5.8	6.8	4.9	6.4	6.0
* LOPEZ	6.2	5.1	5.5	6.8	7.0	5.9	6.6	5.8	5.3	7.1	7.1	5.9	5.1	6.9	6.1	4.7	5.0	4.8	7.2	5.0	6.2	6.0
ISI-AT-90162	5.2	5.3	4.0	5.0	7.4	5.7	6.7	5.7	4.8	6.3	6.4	4.4	5.3	6.4	6.1	4.7	5.5	4.0	6.6	5.8	6.7	5.6
* 18TH GREEN	6.1	5.0	4.0	7.4	5.4	5.5	7.7	5.9	4.8	6.7	7.5	5.0	4.3	7.1	5.6	3.9	4.4	3.8	7.2	4.5	5.8	5.6
* SR 7100	5.0	4.6	3.2	5.2	6.8	5.6	6.0	5.6	5.4	6.8	6.7	5.0	5.2	6.5	6.1	4.6	5.7	4.6	6.0	5.2	6.1	5.5
* TIGER (OM-AT-90163)	5.1	5.0	3.5	5.3	7.2	5.6	6.6	5.2	5.1	6.6	6.6	4.6	4.3	6.9	5.7	4.9	5.6	3.7	6.3	5.2	6.3	5.5
BAR AS 492	4.8	4.6	4.2	6.0	6.1	5.2	5.6	5.5	5.0	6.6	6.5	5.1	4.5	6.6	5.1	4.9	6.1	4.1	6.3	5.3	5.6	5.4
* TENDENZ	4.7	4.2	3.1	4.9	6.2	5.6	6.5	5.1	4.9	6.1	6.3	4.6	3.3	6.3	5.5	4.3	5.7	3.7	6.3	4.6	5.8	5.1
* EXETER	4.3	4.6	2.8	5.3	6.4	4.4	5.1	5.1	5.0	6.0	6.5	5.4	4.1	6.0	3.6	4.6	3.9	3.9	6.6	4.3	5.5	4.9
* SEASIDE	5.1	4.5	4.5	4.8	6.1	4.0	5.6	5.1	4.8	6.0	6.5	5.0	2.6	6.7	3.7	4.2	3.8	4.5	5.1	4.0	5.1	4.8
LSD VALUE	0.6	0.5	1.1	0.8	0.4	0.5	0.6	0.5	0.4	0.7	0.5	0.4	0.6	0.5	0.7	0.6	0.8	0.7	0.5	0.5	0.8	0.1
C.V. (%)	13.0	12.0	26.0	13.6	6.8	11.8	9.3	8.7	10.4	11.2	7.0	4.5	13.2	7.9	13.0	15.7	18.8	16.6	9.1	10.4	13.7	12.3

* COMMERCIALY AVAILABLE IN THE USA IN 1998.

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

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

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN
ON A FAIRWAY OR TEE AT TWENTY-ONE LOCATIONS IN THE U.S. AND CANADA 1/
1994-97 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
CATO	3.8	3.8	5.7	6.0	6.4	6.6	6.5	6.5	6.6	6.6	5.4	4.5	6.4
PROVIDENCE	4.2	4.5	6.1	6.0	6.3	6.5	6.5	6.5	6.6	6.6	5.6	4.9	6.4
PENNEAGLE	3.9	4.1	6.0	5.9	6.3	6.5	6.5	6.6	6.5	6.5	5.3	4.6	6.4
SOUTHSHORE	3.9	4.1	5.9	5.8	6.2	6.4	6.5	6.3	6.4	6.4	5.2	4.3	6.3
PENN G-6 (G-6)	4.7	3.8	6.0	5.7	6.0	6.3	6.3	6.3	6.3	6.4	5.3	4.9	6.2
PENN G-2 (G-2)	4.6	4.8	5.7	5.7	6.0	6.3	6.3	6.2	6.4	6.5	5.4	5.1	6.2
CRENSHAW	3.4	3.2	5.5	5.6	5.9	6.3	6.4	6.3	6.3	6.3	5.1	4.4	6.2
BAR WS 42102	3.2	3.1	5.0	5.5	6.2	6.5	6.2	6.0	6.1	6.2	4.9	3.7	6.1
SEASIDE II (DF-1)	4.2	4.4	5.7	5.5	5.8	6.1	6.2	6.1	6.3	6.2	5.4	4.7	6.1
PRO/CUP	4.2	4.0	5.9	5.5	6.0	6.2	6.3	6.1	6.1	6.0	5.2	4.3	6.1
TRUELINE	3.7	3.9	5.6	5.5	5.9	6.1	6.2	6.1	6.2	6.0	5.2	4.3	6.0
PENNCROSS	4.3	4.0	6.2	5.8	6.0	6.2	6.1	5.9	5.9	5.8	5.0	4.4	6.0
LOPEZ	3.3	4.2	5.8	5.5	5.8	6.2	6.2	6.0	6.0	5.9	5.0	4.3	6.0
ISI-AT-90162	4.0	4.7	6.3	5.5	5.8	5.9	5.5	5.5	5.8	5.7	5.0	4.2	5.7
18TH GREEN	3.0	3.1	4.1	4.9	5.5	5.8	6.1	5.8	5.7	5.4	4.1	2.8	5.6
SR 7100	4.0	4.4	6.1	5.5	5.7	5.9	5.3	5.3	5.6	5.6	5.0	4.1	5.5
TIGER (OM-AT-90163)	3.6	3.9	6.0	5.4	5.7	5.7	5.2	5.4	5.7	5.6	4.8	3.9	5.5
BAR AS 492	5.1	5.0	5.5	5.0	5.4	5.4	5.2	5.3	5.8	5.6	5.3	4.8	5.4
TENDENZ	3.2	3.3	5.3	5.1	5.4	5.4	4.8	5.0	5.2	5.2	4.4	3.3	5.2
EXETER	3.8	4.6	5.8	4.8	4.8	4.6	4.9	4.9	5.1	5.1	4.4	4.3	4.9
SEASIDE	4.2	4.5	4.7	4.4	4.6	4.7	4.8	4.7	4.9	4.9	4.5	3.8	4.8
LSD VALUE	0.9	0.8	0.8	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.0	0.2
C.V. (%)	25.5	24.7	26.1	28.3	24.7	22.5	24.3	27.3	27.2	25.1	32.6	35.0	19.6

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

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

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN
ON A FAIRWAY OR TEE AT TWENTY-ONE LOCATIONS IN THE U.S. AND CANADA 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	KS2	KY1	MA1	MB1	MD1	MI1	MO1	MO2	NH1	NJ1	OH1	PA1	RI1	UB1	VA8	WA1	WA3	WI1	MEAN
PROVIDENCE	5	6	4	7	7.0	5	4.0	2	12	2	1	1.0	4	2	3	4	8	4	4	2	6	1
CATO	2	5	2	1	12.0	1	2.0	9	7	3	2	7.0	2	6	2	18	7	6	1	4	4	2
PENNEAGLE	4	4	1	4	3.5	3	15.5	6	1	1	6	4.0	5	5	1	9	11	2	10	13	5	3
SOUTHSHORE	1	2	9	5	2.0	13	6.0	5	3	4	3	21.0	6	1	4	2	17	10	8	6	11	4
PENN G-2 (G-2)	12	12	8	9	9.0	2	5.0	1	6	13	13	19.0	3	8	7	13	6	12	3	3	2	5
CRENSHAW	3	8	13	3	14.0	4	3.0	3	4	6	10	9.0	7	7	9	8	10	11	2	15	16	6
PENN G-6 (G-6)	9	1	7	14	5.0	10	15.5	10	10	12	12	20.0	1	3	5	19	4	8	9	9	3	7
BAR WS 42102	8	7	10	8	15.0	9	8.0	4	14	7	9	9.0	10	4	6	12	15	15	6	10	9	8
PRO/CUP	7	11	11	10	3.5	6	9.0	8	9	8	5	3.0	14	10	13	3	16	7	11	7	13	9
SEASIDE II (DF-1)	14	3	6	12	10.0	18	17.0	7	2	10	7	15.0	8	9	8	7	12	3	14	19	8	10
TRUELINE	6	9	12	11	16.0	8	12.0	11	5	9	8	12.5	11	11	14	1	13	5	13	12	12	11
PENNCROSS	13	10	3	6	6.0	12	13.0	13	8	5	11	5.5	15	12	17	16	18	1	12	16	7	12
LOPEZ	10	14	5	13	11.0	7	11.0	14	13	11	14	2.0	13	14	12	11	14	9	7	14	14	13
ISI-AT-90162	15	13	16	19	1.0	11	7.0	15	19	18	20	18.0	9	19	10	10	9	17	15	1	1	14
18TH GREEN	11	15	17	2	21.0	17	1.0	12	20	15	4	12.5	17	13	16	21	19	19	5	18	18	15
SR 7100	18	18	19	18	13.0	15	18.0	16	11	14	15	12.5	12	18	11	15	3	13	20	11	15	16
TIGER (OM-AT-90163)	17	16	18	16	8.0	16	10.0	18	15	16	16	16.0	18	15	15	5	5	20	18	8	10	17
BAR AS 492	19	19	15	15	20.0	19	19.0	17	17	17	19	9.0	16	17	19	6	1	16	19	5	19	18
TENDENZ	20	21	20	20	18.0	14	14.0	19	18	19	21	17.0	20	20	18	17	2	21	17	17	17	19
EXETER	21	17	21	17	17.0	20	21.0	20	16	21	18	5.5	19	21	21	14	20	18	16	20	20	20
SEASIDE	16	20	14	21	19.0	21	20.0	21	21	20	17	12.5	21	16	20	20	21	14	21	21	21	21

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 FAIRWAY OR TEE FOR EACH YEAR IN THE U.S. AND CANADA 1/
1994-97 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					
NAME	1994	1995	1996	1997	1994-97
PROVIDENCE	6.7	6.4	6.3	6.0	6.4
CATO	6.6	6.4	6.4	6.1	6.4
PENNEAGLE	6.6	6.3	6.5	6.2	6.4
SOUTHSHORE	6.4	6.2	6.3	6.0	6.2
PENN G-2 (G-2)	6.3	6.3	6.1	6.1	6.1
CRENSHAW	6.6	6.0	6.0	6.0	6.1
PENN G-6 (G-6)	6.4	6.1	6.1	6.2	6.1
BAR WS 42102	6.2	6.0	6.1	5.9	6.1
PRO/CUP	6.3	6.0	6.0	5.9	6.1
SEASIDE II (DF-1)	6.1	6.0	6.2	5.9	6.0
TRUELINE	6.1	6.0	6.0	6.0	6.0
PENNCROSS	6.2	5.8	6.1	5.6	6.0
LOPEZ	6.1	5.8	6.0	5.8	6.0
ISI-AT-90162	5.8	5.6	5.7	5.4	5.6
18TH GREEN	6.1	5.4	5.5	5.2	5.6
SR 7100	5.8	5.3	5.6	5.4	5.5
TIGER (OM-AT-90163)	5.7	5.3	5.7	5.4	5.5
BAR AS 492	5.4	5.4	5.6	5.3	5.4
TENDENZ	5.4	5.0	5.1	5.0	5.1
EXETER	4.8	4.6	5.0	5.4	4.9
SEASIDE	5.1	4.5	5.0	4.7	4.8
LSD VALUE	0.2	0.2	0.2	0.2	0.1
CV (%)	7.1	8.3	9.2	8.6	12.3

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

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

TABLE 5. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN
ON A FAIRWAY OR TEE FOR EACH YEAR IN THE U.S. AND CANADA 1/
1994-97 DATA

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

NAME	1994	1995	1996	1997	1994-97
PROVIDENCE	1	2	3	7	1
CATO	2	1	2	3	2
PENNEAGLE	4	4	1	2	3
SOUTHSHORE	5	5	4	5	4
PENN G-2 (G-2)	8	3	7	4	5
CRENSHAW	3	8	11	6	6
PENN G-6 (G-6)	6	6	8	1	7
BAR WS 42102	10	9	6	11	8
PRO/CUP	7	10	12	10	9
SEASIDE II (DF-1)	14	7	5	9	10
TRUELINE	11	11	10	8	11
PENNCROSS	9	13	9	13	12
LOPEZ	12	12	13	12	13
ISI-AT-90162	15	14	14	14	14
18TH GREEN	13	15	18	19	15
SR 7100	16	17	16	17	16
TIGER (QM-AT-90163)	17	18	15	16	17
BAR AS 492	19	16	17	18	18
TENDENZ	18	19	19	20	19
EXETER	21	20	20	15	20
SEASIDE	20	21	21	21	21

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 6.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	KS2	KY1	MA1	MB1	MD1	MI1	MO1	MO2	NH1	NJ1	OHL	PA1	RI1	UB1	VA8	WA1	WA3	WI1	MEAN
18TH GREEN	7.8	7.4	5.7	8.2	6.6	7.7	8.7	5.3	5.7	7.7	8.3	7.0	6.4	7.8	8.7	7.9	7.9	6.3	8.2	7.6	6.3	7.3
CATO	7.8	7.2	6.8	7.9	7.4	7.0	7.6	5.7	6.4	7.3	7.8	7.0	7.3	7.9	6.6	5.8	7.7	6.3	7.9	7.2	7.2	7.1
PROVIDENCE	7.6	7.3	6.8	7.7	7.0	6.7	7.0	6.0	6.1	7.3	7.8	8.0	6.3	7.9	6.8	6.4	7.4	6.3	7.8	7.6	6.8	7.1
CRENSHAW	7.6	6.8	6.8	7.4	7.6	6.3	7.0	6.0	6.4	6.7	7.8	6.7	6.8	7.5	7.1	6.8	7.2	6.5	7.8	7.0	6.0	6.9
PENN G-6 (G-6)	6.7	6.4	6.3	7.4	7.3	6.8	6.7	6.3	6.3	8.0	8.2	7.0	6.6	7.8	5.6	5.9	7.3	6.0	7.7	5.8	7.0	6.8
PENN G-2 (G-2)	7.0	6.7	6.3	7.4	7.0	7.0	7.0	6.3	6.4	6.7	7.8	6.0	6.6	7.8	5.9	6.5	7.6	6.5	7.1	5.6	7.0	6.8
LOPEZ	7.3	6.4	6.0	7.3	6.9	6.3	7.0	6.0	6.1	7.3	7.3	7.7	5.8	7.6	6.1	6.4	7.0	6.3	7.4	6.6	6.7	6.7
SOUTHSHORE	7.1	6.7	6.3	6.9	7.4	5.8	6.6	5.7	6.4	6.7	7.3	6.0	5.9	7.8	6.9	6.0	7.2	6.7	7.7	6.4	7.0	6.7
PRO/CUP	7.4	7.0	5.7	7.3	6.8	6.1	6.7	5.7	6.2	7.0	8.0	7.0	5.6	7.8	6.1	5.8	6.9	6.5	7.4	6.2	6.3	6.6
BAR WS 42102	7.3	6.9	5.8	7.4	6.8	6.3	6.4	5.7	6.0	8.0	7.8	7.0	5.3	7.8	6.2	5.7	7.2	6.0	7.1	5.9	6.5	6.6
TRUELINE	7.1	6.7	5.8	7.7	6.8	6.4	6.7	5.7	6.0	7.0	7.8	6.3	5.9	7.5	6.0	5.7	7.1	6.3	7.6	6.4	6.5	6.6
PENNEAGLE	7.4	6.8	6.0	6.9	7.3	5.8	6.6	5.7	6.3	7.3	7.3	7.0	5.8	7.6	5.9	5.2	7.0	6.2	7.3	5.8	6.8	6.6
ISI-AT-90162	6.2	5.8	6.2	7.6	7.8	5.9	5.9	6.7	5.7	7.7	7.2	7.0	5.3	7.7	6.1	5.5	6.1	6.7	6.8	5.7	8.5	6.6
TIGER (OM-AT-90163)	6.4	6.3	5.8	7.1	7.3	6.2	6.1	6.7	5.8	8.0	7.3	7.0	5.2	7.8	6.6	5.3	6.0	6.7	6.6	5.7	7.7	6.6
PENNCROSS	7.1	6.8	6.2	6.6	7.3	6.1	6.0	5.3	6.6	7.0	8.0	7.0	5.4	8.0	5.8	5.1	7.1	5.7	7.4	6.3	6.8	6.5
TENDENZ	6.3	6.2	6.0	7.4	7.4	6.6	6.4	6.0	5.6	8.7	6.8	7.0	4.8	7.9	7.6	3.3	6.1	6.5	6.7	6.0	7.3	6.5
SEASIDE II (DF-1)	7.0	6.9	6.0	6.9	7.0	6.0	5.9	6.0	6.2	6.7	7.3	6.0	4.9	7.6	4.7	5.0	6.9	5.8	7.2	4.8	6.8	6.3
BAR AS 492	6.6	6.4	6.2	6.1	5.7	5.7	5.9	6.7	5.3	7.7	6.7	7.0	5.1	7.5	4.2	6.0	6.0	6.2	6.8	5.4	6.5	6.2
EXETER	6.6	7.0	5.5	6.8	5.8	4.7	6.7	6.7	5.6	7.0	7.0	7.0	5.3	7.4	4.8	5.2	5.6	6.5	6.9	5.6	6.2	6.2
SR 7100	6.3	5.9	5.3	6.6	6.2	6.2	5.8	7.0	5.9	7.7	5.8	7.0	4.4	7.6	5.2	4.4	5.6	6.3	6.3	4.3	7.7	6.1
SEASIDE	6.7	6.3	5.2	5.6	3.9	4.1	5.3	6.0	5.7	5.7	5.8	5.3	3.3	7.4	2.7	3.5	5.2	6.2	5.9	4.4	6.0	5.3
LSD VALUE	0.8	0.8	1.2	0.7	1.0	1.1	0.6	0.8	0.7	0.8	1.1	0.6	1.2	0.5	0.9	0.6	0.4	1.5	0.6	1.2	0.9	0.2
C.V. (%)	12.2	12.5	17.1	11.1	17.6	19.6	10.5	8.6	12.4	6.5	12.8	5.9	22.5	8.3	16.1	13.1	7.2	20.6	9.5	21.0	11.8	13.9

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

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

TABLE 7.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	KY1	MA1	MB1	MI1	MO1	MO2	NJ1	OH1	PA1	RI1	UB1	VA8	WA1	WA3	MEAN
SR 7100	7.5	6.6	3.3	8.7	6.8	6.8	5.3	6.8	6.8	8.7	7.0	7.0	6.3	6.2	5.0	7.0	8.0	6.7
TIGER (OM-AT-90163)	6.8	6.6	4.3	8.3	6.2	7.2	5.3	7.3	6.8	6.0	7.0	5.3	6.1	6.1	6.0	6.4	7.5	6.4
TENDENZ	6.8	6.3	2.3	6.7	6.7	7.2	5.8	7.7	7.2	6.3	7.0	7.7	5.2	6.6	5.7	6.6	7.3	6.4
BAR AS 492	5.3	6.3	3.7	8.8	5.0	6.5	5.7	6.7	6.3	8.0	6.7	6.0	5.9	7.4	5.3	6.3	7.8	6.3
ISI-AT-90162	6.8	6.2	3.3	8.0	5.7	7.3	4.8	7.3	7.0	6.3	7.0	6.0	6.6	5.8	5.3	6.3	6.8	6.3
EXETER	6.3	6.8	2.7	8.0	4.8	7.3	5.8	6.5	7.7	5.7	6.8	6.3	5.8	6.8	6.0	6.0	7.3	6.3
PENNCROSS	6.0	6.3	4.3	6.7	5.6	6.0	6.5	7.5	7.0	5.7	6.8	4.3	5.0	5.7	7.0	6.4	6.3	6.1
TRUELINE	6.2	6.1	3.0	6.8	4.9	6.5	6.2	7.7	7.5	3.7	7.1	4.7	4.9	6.7	7.3	6.2	6.7	6.0
PENNEAGLE	5.5	6.6	3.7	6.5	4.4	6.8	6.0	7.3	7.3	6.0	7.1	4.0	4.1	5.9	7.0	7.0	5.8	5.9
CATO	6.0	6.2	3.7	7.3	5.1	7.3	5.8	8.0	8.2	5.0	7.1	3.0	4.1	5.8	7.7	6.0	4.8	5.9
LOPEZ	6.0	6.1	3.7	7.2	5.0	6.3	6.0	7.3	7.5	4.0	6.9	4.7	5.0	6.2	7.0	6.3	5.8	5.9
SOUTHSHORE	5.8	5.9	4.0	6.5	4.4	6.7	6.2	7.8	7.2	5.7	7.1	3.3	4.6	5.4	7.0	6.6	6.0	5.9
PROVIDENCE	6.0	5.8	4.7	7.0	4.9	6.5	5.8	7.5	7.5	4.7	7.1	2.7	4.3	5.4	7.7	6.4	5.5	5.9
PRO/CUP	6.0	6.0	3.7	7.2	4.6	6.5	6.0	7.7	7.7	5.0	7.0	3.7	4.3	5.4	7.3	6.1	5.3	5.8
SEASIDE	7.0	6.2	4.0	7.7	4.9	6.2	5.8	6.2	6.5	4.7	6.7	4.3	3.8	5.8	5.3	6.8	7.7	5.8
CRENSHAW	6.0	6.5	3.7	7.3	4.8	6.8	5.8	7.8	7.2	5.7	7.0	3.3	4.2	5.3	6.7	5.7	5.3	5.8
PENN G-6 (G-6)	5.7	6.0	4.0	6.5	4.3	6.0	5.2	7.7	7.0	6.3	7.1	2.0	3.4	6.0	6.3	6.0	5.5	5.6
18TH GREEN	6.7	5.8	3.7	5.7	4.2	7.2	5.3	8.2	8.3	4.0	7.1	1.3	3.4	5.7	7.0	5.7	4.8	5.5
SEASIDE II (DF-1)	5.3	5.8	3.7	5.8	4.2	6.0	5.2	7.5	7.3	5.0	6.8	2.7	3.6	5.1	6.7	6.0	5.7	5.4
BAR WS 42102	5.5	6.0	3.7	6.0	4.4	5.8	6.0	7.7	7.8	2.7	7.1	2.3	4.2	5.1	6.3	5.1	5.3	5.4
PENN G-2 (G-2)	5.8	6.2	4.3	6.5	3.6	6.2	5.3	7.2	6.8	5.0	6.8	1.0	2.7	5.4	6.7	5.9	5.0	5.3
LSD VALUE	1.1	0.7	1.2	0.8	1.7	0.9	0.6	0.8	0.8	2.6	0.4	1.0	0.9	0.9	1.3	1.0	1.4	0.3
C.V. (%)	15.9	13.3	21.1	9.8	36.3	11.6	8.9	9.7	9.2	29.5	5.7	15.7	20.8	16.5	12.7	17.5	20.0	16.6

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

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

TABLE 8.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	KS2	KY1	MB1	MD1	MI1	MO1	MO2	NJ1	OHL	PA1	RI1	UB1	VA8	WA1	WA3	MEAN
PENN G-2 (G-2)	6.4	7.9	7.2	8.5	8.4	3.8	7.7	5.7	6.3	8.2	8.0	8.0	8.2	7.5	8.2	6.8	8.1	7.7	7.4
BAR WS 42102	7.9	7.8	7.5	8.5	8.3	4.0	6.3	5.7	8.0	7.2	7.0	8.0	9.0	6.8	8.0	6.2	8.1	7.8	7.3
PENN G-6 (G-6)	6.9	8.1	7.0	8.2	7.8	3.8	7.3	5.8	8.0	7.3	7.5	8.0	8.3	6.8	7.9	6.7	7.6	6.5	7.2
CATO	6.9	7.9	7.3	8.3	8.2	4.0	6.3	5.8	7.3	7.2	6.3	8.0	9.0	7.1	7.9	5.8	7.8	7.7	7.2
SEASIDE II (DF-1)	6.7	8.0	7.3	7.5	8.7	3.5	7.0	6.0	7.0	7.0	5.2	8.3	6.8	6.9	7.9	6.2	7.5	7.0	6.9
SOUTHSHORE	7.1	7.9	7.2	8.3	8.0	3.5	6.0	6.0	6.0	7.5	6.2	8.0	7.3	6.8	7.8	5.3	7.7	7.5	6.9
CRENSHAW	7.1	7.4	6.8	7.8	7.6	3.7	7.3	6.0	6.7	6.8	5.0	8.3	7.8	6.1	8.0	5.5	7.8	6.3	6.8
SR 7100	6.8	8.1	6.5	5.8	7.3	3.3	6.3	5.4	7.7	7.2	6.3	8.2	6.3	6.6	7.9	6.0	7.8	7.2	6.7
PROVIDENCE	6.9	7.2	7.0	7.5	7.1	3.3	6.3	5.7	6.3	7.5	6.0	7.8	7.3	6.8	8.0	5.3	7.3	6.5	6.7
ISI-AT-90162	6.4	7.7	5.7	5.5	7.9	3.8	6.0	5.2	6.3	8.0	5.7	7.8	6.2	6.8	7.9	5.7	7.7	8.5	6.6
PENNEAGLE	7.3	7.2	7.0	7.7	7.3	3.5	5.7	5.9	6.3	6.8	5.2	8.0	6.3	6.6	7.9	5.2	7.7	5.8	6.5
TIGER (OM-AT-90163)	6.2	7.4	6.0	4.8	7.0	3.8	5.7	5.3	6.0	7.3	5.0	7.8	5.8	6.8	7.8	5.7	7.7	5.7	6.2
BAR AS 492	6.3	7.4	6.2	5.7	6.7	3.2	6.0	5.2	6.3	7.2	5.7	8.0	4.3	6.9	7.8	5.0	7.5	6.3	6.2
18TH GREEN	6.8	7.0	6.7	7.3	6.9	3.5	5.7	5.1	5.7	6.8	4.0	8.0	6.8	5.5	7.2	5.5	7.4	5.5	6.2
PRO/CUP	6.3	6.9	6.0	7.3	7.4	3.2	5.3	5.6	5.7	6.8	3.7	8.3	5.5	6.4	7.4	5.0	7.4	6.2	6.1
TENDENZ	5.8	7.7	5.7	5.5	7.3	3.3	5.7	5.6	6.0	7.0	4.3	8.2	5.8	5.9	7.6	5.5	7.5	4.8	6.1
TRUELINE	6.7	6.9	6.0	6.3	7.1	3.3	6.0	5.7	5.7	6.5	3.5	8.1	4.7	6.2	7.4	4.7	7.3	6.5	6.0
LOPEZ	6.2	6.8	6.7	6.8	7.3	3.2	6.0	5.7	5.7	6.3	4.2	8.1	4.3	6.3	7.1	4.7	7.4	5.7	6.0
PENNCROSS	6.6	6.6	6.5	6.0	7.9	3.8	6.0	5.4	6.0	7.0	2.5	7.8	4.7	6.3	7.0	5.2	7.3	4.5	5.9
EXETER	5.8	6.9	5.8	5.3	7.1	2.2	5.7	5.3	6.0	7.0	3.3	8.3	4.3	6.4	6.2	4.5	7.1	6.2	5.8
SEASIDE	5.8	6.3	4.5	3.8	5.3	2.3	5.0	4.9	4.0	5.8	1.8	8.3	1.7	6.3	5.7	3.8	6.6	3.7	4.8
LSD VALUE	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.7	1.2	1.2	1.0	0.5	1.2	0.8	0.4	1.2	0.6	1.1	0.2
C.V. (%)	16.0	14.3	15.0	12.4	12.5	21.9	8.9	13.3	11.9	14.7	17.7	7.2	16.6	14.7	5.8	19.3	9.4	15.3	13.5

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

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

TABLE 9. WEAR TOLERANCE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

WEAR TOLERANCE RATINGS 1-9; 9=MAXIMUM TOLERANCE 3/

NAME	MO1
CRENSHAW	7.3
PROVIDENCE	7.3
SEASIDE II (DF-1)	7.3
SOUTHSHORE	7.3
LOPEZ	7.0
PENN G-6 (G-6)	7.0
BAR AS 492	6.7
BAR WS 42102	6.7
CATO	6.7
ISI-AT-90162	6.7
PENN G-2 (G-2)	6.7
PENNCROSS	6.7
PENNEAGLE	6.7
TIGER (OM-AT-90163)	6.7
SR 7100	6.3
TENDENZ	6.3
TRUELINE	6.3
PRO/CUP	6.0
SEASIDE	6.0
EXETER	5.7
18TH GREEN	5.3
LSD VALUE	1.3
C.V. (%)	12.7

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

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

3/ WEAR TOLERANCE RATED IN 1994.

TABLE 10.

SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IL1	KS2	MD1	MO1	MO2	NJ1	PA1	RI1	UB1	WA1	WA3	WI1	MEAN
SEASIDE	6.0	8.3	6.7	7.3	7.7	9.0	6.3	7.7	8.0	9.0	8.7	8.7	7.8
PROVIDENCE	5.3	7.3	7.0	7.0	7.0	7.7	6.7	6.0	7.0	8.0	7.3	8.7	7.1
PENNCROSS	4.3	7.3	7.7	7.0	7.0	8.3	6.7	5.7	6.7	8.3	7.3	8.0	7.0
PENNEAGLE	4.3	6.7	7.0	7.0	7.3	7.7	5.3	6.0	6.3	8.7	7.3	7.0	6.7
CRENSHAW	5.0	6.0	7.3	5.3	6.7	6.7	6.0	6.7	6.7	7.7	8.3	8.0	6.7
TIGER (OM-AT-90163)	4.0	4.7	6.0	6.7	7.3	7.7	5.7	7.0	7.7	7.7	7.3	8.3	6.7
SOUTHSHORE	3.7	6.3	7.0	7.0	7.3	8.0	5.7	6.3	6.0	7.7	7.3	7.0	6.6
EXETER	4.0	8.7	5.7	7.0	7.3	7.7	4.7	6.7	7.0	8.0	6.0	6.0	6.6
PRO/CUP	4.3	7.0	6.3	6.3	7.3	8.0	4.7	5.3	6.0	8.3	6.3	8.3	6.5
SEASIDE II (DF-1)	4.0	6.0	6.3	6.3	6.7	8.3	4.0	5.7	6.3	8.7	6.7	8.0	6.4
SR 7100	3.7	5.7	6.0	6.3	6.7	7.0	5.0	6.3	7.3	8.3	5.3	7.3	6.3
ISI-AT-90162	3.3	3.3	6.0	6.7	7.3	7.0	5.0	5.7	7.0	7.7	6.0	7.7	6.1
CATO	4.0	4.0	6.0	6.0	6.3	7.3	4.7	5.3	5.7	7.3	7.0	6.3	5.8
TENDENZ	3.7	4.7	5.3	4.7	5.7	7.3	4.7	5.7	7.0	8.0	7.3	5.0	5.8
BAR WS 42102	4.0	5.3	4.7	6.0	5.7	7.0	2.7	4.7	5.3	8.0	5.0	7.7	5.5
LOPEZ	3.3	6.0	5.7	5.3	6.0	6.7	4.0	5.3	5.0	7.7	4.7	5.3	5.4
TRUELINE	5.3	6.3	5.3	4.3	4.7	6.0	4.0	5.0	4.7	7.3	5.7	6.3	5.4
18TH GREEN	3.7	3.7	5.0	6.0	6.7	7.3	5.0	5.3	5.3	7.3	3.7	5.7	5.4
PENN G-6 (G-6)	3.3	5.7	7.0	4.7	4.7	6.0	2.7	5.7	4.3	8.0	5.0	7.3	5.4
PENN G-2 (G-2)	3.0	5.7	5.7	4.7	5.7	6.3	2.7	5.7	4.3	7.3	4.3	7.7	5.3
BAR AS 492	2.3	6.7	3.3	4.3	5.7	4.7	1.3	6.0	3.3	6.7	1.3	3.3	4.1
LSD VALUE	1.3	2.3	1.4	1.9	1.5	1.0	1.2	1.4	0.7	1.3	1.2	2.1	0.4
C.V. (%)	20.5	24.1	14.9	19.4	14.2	8.7	16.1	14.5	7.5	10.3	12.6	18.5	15.4

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

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

TABLE 11. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	MB1	MO1	MO2	NH1	NJ1	PA1	WA3	MEAN
CATO	7.8	7.7	8.0	6.3	7.0	7.1	7.7	7.4
SOUTHSHORE	8.2	8.7	8.3	5.3	6.3	7.7	6.3	7.3
PROVIDENCE	7.5	8.3	8.0	7.0	6.0	6.9	7.0	7.2
BAR WS 42102	7.3	7.3	7.7	7.0	6.7	6.9	7.8	7.2
CRENSHAW	7.5	7.7	8.0	7.0	5.3	6.8	6.1	6.9
PENN G-2 (G-2)	8.0	6.7	7.0	5.7	8.0	5.1	7.6	6.9
PENNEAGLE	7.3	8.0	7.7	5.0	5.7	7.8	5.8	6.7
SR 7100	6.8	7.7	7.0	5.0	6.3	7.1	7.0	6.7
PRO/CUP	7.8	7.7	7.7	7.0	3.7	6.1	6.1	6.6
PENN G-6 (G-6)	7.8	7.3	7.7	3.7	7.3	5.9	5.7	6.5
PENNCROSS	7.5	7.7	8.0	7.3	3.7	6.3	4.8	6.5
ISI-AT-90162	7.7	7.0	6.7	4.3	5.7	7.0	6.4	6.4
SEASIDE II (DF-1)	7.0	8.0	7.7	4.0	6.3	6.4	5.2	6.4
TRUELINE	7.3	7.7	7.7	7.0	4.3	5.7	4.9	6.4
18TH GREEN	8.5	8.0	7.3	6.0	3.0	5.2	5.4	6.2
LOPEZ	7.3	7.0	7.0	6.7	3.7	6.2	4.8	6.1
TIGER (OM-AT-90163)	7.2	7.3	6.3	4.0	4.3	6.8	5.4	5.9
BAR AS 492	5.8	6.7	5.7	8.0	3.7	4.8	5.6	5.7
TENDENZ	7.0	6.0	6.3	5.0	1.7	6.8	5.8	5.5
EXETER	6.0	6.7	6.0	6.7	3.5	5.2	4.2	5.5
SEASIDE	5.5	6.7	6.3	4.0	1.3	3.9	2.1	4.3
LSD VALUE	1.0	1.2	0.9	0.6	1.2	1.0	1.1	0.5
C.V. (%)	12.6	9.8	7.6	6.1	15.3	17.4	20.6	15.4

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

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

TABLE 12. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/								
NAME	IL1	MB1	MO1	MO2	NH1	PA1	WA3	MEAN
PROVIDENCE	5.3	7.2	8.0	8.0	6.0	8.0	7.2	7.1
SOUTHSHORE	5.7	7.6	8.0	8.0	6.0	7.7	6.8	7.1
PENN G-6 (G-6)	7.7	7.1	7.0	7.7	6.3	7.7	6.0	7.1
18TH GREEN	6.0	8.4	8.3	8.0	5.0	6.7	6.5	7.0
BAR WS 42102	7.3	7.4	7.3	7.7	4.7	7.3	7.2	7.0
CATO	6.0	7.6	7.7	8.0	6.0	7.0	6.7	7.0
SEASIDE II (DF-1)	7.0	7.2	8.0	8.0	4.7	8.3	5.7	7.0
PENNEAGLE	6.7	7.2	8.0	8.0	6.0	7.0	5.7	6.9
CRENSHAW	6.0	7.8	8.0	7.3	6.0	7.0	6.0	6.9
PENN G-2 (G-2)	6.0	7.4	7.0	7.3	4.3	8.0	7.2	6.8
PRO/CUP	6.0	7.6	8.0	7.7	6.0	5.7	6.3	6.7
TRUELINE	5.0	7.4	7.7	7.7	6.0	6.7	6.2	6.7
SR 7100	5.3	6.6	8.3	8.0	6.0	5.7	5.3	6.5
ISI-AT-90162	5.3	7.4	6.7	6.7	6.0	6.0	6.8	6.4
LOPEZ	4.7	7.0	7.0	7.0	6.0	6.3	6.2	6.3
PENNCROSS	5.0	7.4	7.7	8.0	4.0	5.3	5.2	6.1
TIGER (OM-AT-90163)	5.0	7.3	7.3	6.3	5.3	5.3	4.7	5.9
BAR AS 492	5.3	6.2	6.7	6.3	3.7	6.7	6.0	5.8
TENDENZ	5.3	6.8	6.0	6.3	6.3	5.3	4.5	5.8
EXETER	5.0	5.7	7.0	6.0	6.0	4.7	4.3	5.5
SEASIDE	4.0	6.1	6.0	6.3	4.7	3.3	3.2	4.8
LSD VALUE	1.2	0.9	1.1	0.8	0.8	1.1	1.1	0.4
C.V. (%)	13.4	14.1	9.3	7.1	8.6	10.7	16.7	13.3

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

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

TABLE 13. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IL1	MB1	MO1	MO2	PA1	WA3	MEAN
CATO	6.3	8.4	7.7	8.0	8.2	7.0	7.6
PROVIDENCE	6.0	8.1	7.7	8.0	8.2	7.7	7.6
SOUTHSHORE	6.3	8.0	8.0	8.3	7.3	6.7	7.4
PENN G-2 (G-2)	6.0	8.6	7.7	7.3	7.8	7.2	7.4
SEASIDE II (DF-1)	6.7	7.6	8.0	8.0	7.3	6.6	7.4
PENN G-6 (G-6)	7.0	7.3	7.7	7.7	7.8	6.0	7.3
BAR WS 42102	6.3	8.2	7.3	7.7	6.5	7.3	7.2
PENNEAGLE	5.3	7.8	8.0	7.7	8.0	6.2	7.2
SR 7100	5.7	6.4	8.3	8.0	7.7	6.7	7.1
CRENSHAW	6.0	8.3	8.0	7.7	5.8	6.9	7.1
ISI-AT-90162	6.7	7.0	7.0	6.7	7.3	8.0	7.1
TRUELINE	6.3	7.7	8.0	7.3	6.5	6.1	7.0
TIGER (OM-AT-90163)	5.3	7.4	8.0	6.7	7.7	6.8	7.0
LOPEZ	6.0	7.7	7.0	7.3	6.2	7.0	6.9
PRO/CUP	5.7	7.9	8.0	7.7	5.7	6.2	6.9
PENNCROSS	5.0	7.7	7.7	8.0	6.2	5.8	6.7
18TH GREEN	5.0	8.8	8.3	8.0	4.3	5.6	6.7
BAR AS 492	5.3	6.1	7.3	6.3	6.5	7.2	6.5
TENDENZ	6.0	6.8	7.7	6.3	6.5	5.4	6.5
EXETER	5.3	5.9	7.3	6.0	4.3	5.9	5.8
SEASIDE	5.0	6.0	7.3	6.3	4.7	3.9	5.5
LSD VALUE	1.1	1.1	0.8	0.9	1.7	1.3	0.6
C.V. (%)	11.1	16.3	6.3	7.6	22.7	21.1	17.7

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

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

TABLE 14. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 3/							
NAME	IN1	MO1	MO2	OH1	PA1	VA8	MEAN
PENNCROSS	86.7	83.3	85.0	61.7	86.3	99.0	83.7
PENNEAGLE	78.3	81.7	83.3	53.3	91.0	98.7	81.1
18TH GREEN	63.3	80.0	81.7	68.3	88.3	98.3	80.0
SOUTHSHORE	56.7	81.7	83.3	75.0	83.7	99.0	79.9
SEASIDE	56.7	78.3	90.0	73.3	76.7	99.0	79.0
PRO/CUP	70.0	75.0	80.0	61.7	86.0	98.7	78.6
CRENSHAW	63.3	76.7	85.0	66.7	77.3	99.0	78.0
CATO	73.3	71.7	68.3	68.3	86.0	99.0	77.8
PROVIDENCE	56.7	76.7	86.7	61.7	83.3	99.0	77.3
TIGER (OM-AT-90163)	36.7	83.3	78.3	61.7	96.0	98.0	75.7
SR 7100	38.3	76.7	85.0	58.3	96.3	98.7	75.6
SEASIDE II (DF-1)	56.7	76.7	80.0	75.0	64.0	99.0	75.2
BAR WS 42102	46.7	68.3	60.0	78.3	82.3	97.3	72.2
TRUELINE	53.3	68.3	71.7	60.0	80.7	98.7	72.1
ISI-AT-90162	36.7	73.3	73.3	51.7	96.0	98.7	71.6
EXETER	36.7	66.7	73.3	60.0	90.7	97.3	70.8
LOPEZ	50.0	70.0	63.3	55.0	83.0	99.0	70.1
PENN G-6 (G-6)	53.3	68.3	71.7	58.3	66.7	99.0	69.6
TENDENZ	40.0	71.7	60.0	43.3	97.7	98.0	68.4
PENN G-2 (G-2)	60.0	58.3	56.7	55.0	53.3	96.0	63.2
BAR AS 492	28.3	55.0	53.3	53.3	88.7	98.7	62.9
LSD VALUE	30.6	19.0	15.6	25.4	9.5	1.3	8.0
C.V. (%)	35.0	16.1	13.0	25.5	7.1	0.8	16.3

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

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

3/ PERCENT LIVING GROUND COVER (SPRING) RATED AT "PA1" IN 1996 AND AT OTHER LOCATIONS IN 1994.

TABLE 15. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 3/					
NAME	MO1	MO2	OH1	UB1	MEAN
SEASIDE II (DF-1)	81.7	78.3	85.0	93.3	84.6
SOUTHSHORE	83.3	78.3	90.0	86.7	84.6
SR 7100	80.0	86.7	78.3	91.7	84.2
PROVIDENCE	73.3	85.0	81.7	94.7	83.7
PENNEAGLE	81.7	80.0	81.7	90.0	83.3
PENN G-6 (G-6)	73.3	76.7	87.3	91.7	82.3
CATO	75.0	76.7	86.7	90.0	82.1
TIGER (OM-AT-90163)	75.0	76.7	79.0	91.7	80.6
BAR WS 42102	76.7	70.0	91.7	81.7	80.0
PENN G-2 (G-2)	70.0	70.0	86.7	90.0	79.2
PENNCROSS	65.0	81.7	86.7	83.3	79.2
PRO/CUP	71.7	78.3	85.0	80.0	78.8
SEASIDE	68.3	76.7	83.3	86.7	78.8
CRENSHAW	76.7	76.7	85.0	73.3	77.9
TENDENZ	73.3	66.7	78.3	90.0	77.1
ISI-AT-90162	65.0	73.3	73.3	96.3	77.0
LOPEZ	68.3	73.3	79.3	85.0	76.5
BAR AS 492	61.7	71.7	76.7	95.0	76.3
TRUELINE	68.3	76.7	73.3	83.3	75.4
EXETER	66.7	73.3	70.0	90.0	75.0
18TH GREEN	66.7	78.3	88.3	53.3	71.7
LSD VALUE	17.0	10.6	13.1	12.0	6.7
C.V. (%)	14.6	8.6	9.9	8.6	10.5

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

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

3/ PERCENT LIVING GROUND COVER (SUMMER) RATED AT "UB1" IN 1995 AND AT OTHER LOCATIONS IN 1994.

TABLE 16. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 3/							
NAME	MO1	MO2	OHI	PA1	VA8	WA3	MEAN
PENNEAGLE	86.7	83.3	68.3	98.7	96.3	99.0	88.7
PROVIDENCE	85.0	83.3	60.0	96.3	98.7	99.0	87.1
SR 7100	80.0	85.0	78.3	99.0	76.7	97.7	86.1
SEASIDE II (DF-1)	81.7	78.3	68.3	96.3	91.0	99.0	85.8
PENNCROSS	81.7	80.0	55.0	98.7	93.0	99.0	84.6
TRUELINE	75.0	85.0	65.0	92.7	90.0	96.0	83.9
BAR WS 42102	78.3	80.0	60.0	91.0	91.7	99.0	83.3
CATO	80.0	81.7	46.7	99.0	89.7	99.0	82.7
LOPEZ	80.0	81.7	70.0	96.0	69.3	96.3	82.2
PRO/CUP	78.3	81.7	68.3	91.0	75.0	99.0	82.2
PENN G-6 (G-6)	78.3	81.7	71.7	94.7	51.7	99.0	79.5
EXETER	71.7	76.7	65.0	99.0	68.3	94.7	79.2
CRENSHAW	81.7	76.7	66.7	85.0	66.7	98.0	79.1
SEASIDE	70.0	71.7	60.0	99.0	81.7	91.7	79.0
ISI-AT-90162	80.0	83.3	53.3	99.0	58.3	99.0	78.8
BAR AS 492	75.0	83.3	63.3	99.0	50.0	99.0	78.3
PENN G-2 (G-2)	80.0	80.0	53.3	92.7	63.3	99.0	78.1
TIGER (OM-AT-90163)	78.3	78.3	56.7	99.0	50.0	99.0	76.9
SOUTHSHORE	80.0	78.3	45.0	99.0	58.3	99.0	76.6
TENDENZ	78.3	78.3	50.0	99.0	43.3	91.7	73.4
18TH GREEN	73.3	75.0	70.0	61.7	41.7	99.0	70.1
LSD VALUE	7.8	8.6	27.9	9.1	35.4	3.1	7.9
C.V. (%)	6.1	6.7	28.1	6.0	30.8	2.0	14.9

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

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

3/ PERCENT LIVING GROUND COVER (FALL) RATED AT "OH1" IN 1993, AT "VA8" & "WA3" IN 1995 AND AT OTHER LOCATIONS IN 1994.

TABLE 17. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 3/

NAME	KS2	VA8	WA3	MEAN
EXETER	8.3	6.0	5.4	6.6
BAR AS 492	8.3	5.7	5.7	6.6
TIGER (OM-AT-90163)	6.3	7.3	5.9	6.5
SR 7100	6.7	6.3	5.9	6.3
ISI-AT-90162	6.0	6.5	5.9	6.1
PRO/CUP	6.3	6.5	4.0	5.6
PENN G-2 (G-2)	7.0	5.8	3.8	5.5
SEASIDE	5.3	6.0	4.9	5.4
PENN G-6 (G-6)	5.7	6.8	3.7	5.4
PENNCROSS	5.7	5.7	4.3	5.2
TRUELINE	6.0	6.0	3.6	5.2
LOPEZ	6.3	5.8	3.3	5.2
PENNEAGLE	5.3	5.8	4.3	5.2
PROVIDENCE	6.0	5.8	3.7	5.2
SOUTHSHORE	5.0	6.2	4.2	5.1
TENDENZ	4.7	6.3	4.2	5.1
CRENSHAW	5.0	7.2	2.6	4.9
SEASIDE II (DF-1)	4.3	6.0	3.9	4.7
CATO	5.0	6.0	3.1	4.7
BAR WS 42102	5.3	5.8	2.8	4.6
18TH GREEN	3.0	5.2	3.0	3.7
LSD VALUE	1.5	1.1	0.9	0.6
C.V. (%)	16.6	16.3	22.4	17.9

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

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

3/ WINTER COLOR RATED AT "KS2" IN 1994 AND AT "VA8" & "WA3" IN 1994-95.

TABLE 18. PERCENT WINTER KILL RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

PERCENT WINTER KILL RATINGS: LOCATIONS 3/				
NAME	IA1	OH1	UB1	MEAN
SEASIDE II (DF-1)	80.0	72.0	13.3	55.1
EXETER	66.7	70.7	23.3	53.6
BAR AS 492	73.3	74.0	5.0	50.8
PENN G-6 (G-6)	80.0	63.0	5.0	49.3
PENN G-2 (G-2)	76.7	57.3	8.3	47.4
CATO	70.0	71.7	0.0	47.2
SOUTHSHORE	70.0	71.3	0.0	47.1
ISI-AT-90162	36.7	76.3	25.0	46.0
18TH GREEN	56.7	75.7	1.7	44.7
BAR WS 42102	76.7	50.7	5.0	44.1
PROVIDENCE	56.7	71.7	0.0	42.8
SR 7100	36.7	83.0	6.7	42.1
PENNEAGLE	70.0	52.7	0.0	40.9
TIGER (OM-AT-90163)	33.3	65.3	23.3	40.7
CRENSHAW	63.3	55.0	0.0	39.4
PRO/CUP	63.3	53.0	1.7	39.3
TRUELINE	50.0	68.0	0.0	39.3
PENNCROSS	50.0	63.3	3.3	38.9
TENDENZ	40.0	72.3	3.3	38.6
LOPEZ	50.0	62.3	0.0	37.4
SEASIDE	23.3	61.7	5.0	30.0
LSD VALUE	17.2	24.6	7.0	10.3
C.V. (%)	18.4	23.1	70.5	25.4

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

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

3/ PERCENT WINTER KILL RATED AT "IA1" IN 1996 AND AT "OH1" & "UB1" IN 1994.

TABLE 19. THATCH MEASUREMENTS OF BENIGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE 2/
1994-97 DATA 3/

THATCH MEASUREMENTS IN MILLIMETERS 4/

NAME	OH1
PENN G-2 (G-2)	8.0
PRO/CUP	8.0
PENN G-6 (G-6)	7.3
SEASIDE II (DF-1)	7.0
SOUTHSHORE	7.0
18TH GREEN	6.0
PENNEAGLE	6.0
CATO	5.3
PENNCROSS	5.3
SR 7100	5.3
BAR WS 42102	5.0
LOPEZ	5.0
TRUELINE	5.0
CRENSHAW	4.7
PROVIDENCE	4.7
TENDENZ	4.7
BAR AS 492	4.3
EXETER	4.3
TIGER (OM-AT-90163)	4.3
ISI-AT-90162	4.0
SEASIDE	1.0
LSD VALUE	3.2
C.V. (%)	37.5

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

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

3/ THATCH MEASUREMENTS NOT COMPRESSED, USED 2 CM DIAMETER PLUG.

4/ THATCH MEASURED IN 1995.

TABLE 20. TYPHULA BLIGHT RATINGS OF BENTGRASS CULTIVARS
 GROWN ON A FAIRWAY OR TEE 1/
 1994-97 DATA 2/

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

NAME	PA1
ISI-AT-90162	9.0
TENDENZ	9.0
TIGER (OM-AT-90163)	9.0
18TH GREEN	8.7
BAR AS 492	8.7
BAR WS 42102	8.7
SR 7100	8.7
PENN G-2 (G-2)	8.3
PENNCROSS	8.3
CATO	8.0
EXETER	8.0
LOPEZ	8.0
PENN G-6 (G-6)	8.0
PENNEAGLE	8.0
PRO/CUP	8.0
PROVIDENCE	8.0
SEASIDE II (DF-1)	8.0
SOUTHSHORE	8.0
TRUELINE	8.0
CRENSHAW	7.3
SEASIDE	6.0
LSD VALUE	0.8
C.V. (%)	6.2

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

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

3/ TYPHULA BLIGHT RATED IN 1994.

TABLE 21. FUSARIUM PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

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

NAME	MI1	WA1	WA3	MEAN
PENNCROSS	8.7	6.3	8.5	7.8
TIGER (OM-AT-90163)	8.7	5.7	8.5	7.6
PENNEAGLE	8.7	6.4	7.7	7.6
ISI-AT-90162	8.0	4.9	8.7	7.2
TRUELINE	9.0	4.9	7.7	7.2
LOPEZ	8.3	5.8	7.2	7.1
SR 7100	8.7	5.1	7.5	7.1
PRO/CUP	8.3	4.7	7.7	6.9
TENDENZ	7.7	5.1	7.8	6.9
SOUTHSHORE	8.7	5.0	6.8	6.8
EXETER	8.0	4.9	7.5	6.8
BAR AS 492	7.7	4.6	7.3	6.5
BAR WS 42102	8.0	3.9	6.8	6.2
CATO	7.0	4.7	6.8	6.2
SEASIDE II (DF-1)	7.7	4.9	5.8	6.1
CRENSHAW	7.3	4.7	6.2	6.1
PROVIDENCE	7.0	4.7	6.0	5.9
SEASIDE	8.0	3.8	4.5	5.4
18TH GREEN	7.7	4.0	4.5	5.4
PENN G-6 (G-6)	5.3	4.6	5.5	5.1
PENN G-2 (G-2)	4.7	4.0	4.2	4.3
LSD VALUE	1.5	1.6	1.7	1.0
C.V. (%)	12.1	35.8	22.3	24.4

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

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

3/ FUSARIUM PATCH RATED AT "MI1" 1997, AT "WA1" IN 1995-97 AND AT "WA3" IN 1994-95.

TABLE 22. LEAF SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

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

NAME	NH1	PA1	MEAN
PENNCROSS	8.0	8.0	8.0
LOPEZ	8.0	7.7	7.8
PENNEAGLE	7.0	8.7	7.8
PENN G-2 (G-2)	6.0	9.0	7.5
PROVIDENCE	8.0	7.0	7.5
PENN G-6 (G-6)	7.0	7.7	7.3
PRO/CUP	7.0	7.7	7.3
TRUELINE	7.3	7.3	7.3
BAR WS 42102	7.0	7.3	7.2
BAR AS 492	7.0	7.0	7.0
CATO	7.0	7.0	7.0
CRENSHAW	7.0	7.0	7.0
SEASIDE II (DF-1)	7.0	7.0	7.0
18TH GREEN	7.0	6.7	6.8
ISI-AT-90162	7.0	6.7	6.8
SOUTHSHORE	5.0	8.0	6.5
SR 7100	7.0	5.7	6.3
SEASIDE	4.0	8.0	6.0
TENDENZ	6.7	5.3	6.0
TIGER (OM-AT-90163)	6.7	5.0	5.8
EXETER	7.7	3.0	5.3
LSD VALUE	0.5	2.3	1.2
C.V. (%)	4.8	20.6	15.0

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

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

3/ LEAF SPOT RATED AT "NH1" IN 1994 AND AT "PA1" IN 1996.

TABLE 23.

DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IN1	MI1	MO1	MO2	NJ1	OH1	PA1	RI1	UB1	MEAN
BAR AS 492	7.1	5.7	7.4	6.2	7.7	7.2	8.8	8.7	8.7	7.5
TENDENZ	7.6	5.7	7.9	5.9	6.8	7.0	8.7	7.3	9.0	7.3
SR 7100	7.6	6.3	7.7	5.6	7.3	6.7	8.0	8.7	6.3	7.1
ISI-AT-90162	6.7	5.3	7.8	6.3	6.5	6.5	8.3	8.7	7.7	7.1
TIGER (OM-AT-90163)	7.3	6.3	7.8	5.9	6.2	6.5	7.7	6.7	5.7	6.7
SEASIDE II (DF-1)	6.7	6.7	7.6	6.3	6.2	7.2	6.2	5.7	7.0	6.6
EXETER	7.0	5.7	7.4	5.8	5.3	5.8	7.5	6.7	7.3	6.5
PROVIDENCE	6.6	5.0	7.7	5.6	5.3	7.3	6.8	6.0	6.3	6.3
SEASIDE	6.9	6.0	7.1	5.6	5.3	6.3	5.8	7.3	5.0	6.2
PENNEAGLE	6.1	5.7	6.7	5.8	6.0	7.3	5.5	6.0	4.7	6.0
CATO	6.4	4.3	6.8	5.6	5.5	6.0	6.2	6.0	4.7	5.7
SOUTHSHORE	5.6	5.7	6.8	5.8	5.2	6.3	5.0	5.0	5.3	5.6
PENN G-2 (G-2)	5.8	4.3	5.9	5.6	5.3	6.7	6.8	5.0	4.7	5.6
PENN G-6 (G-6)	6.6	5.3	6.4	5.7	4.7	6.8	6.0	3.0	4.7	5.5
BAR WS 42102	6.1	4.0	6.8	5.6	5.5	7.2	4.5	5.0	4.0	5.4
PENNCROSS	4.9	5.0	6.9	5.9	4.8	6.5	5.3	3.3	5.7	5.4
TRUELINE	5.4	4.7	6.6	5.6	4.2	5.7	4.0	6.3	5.0	5.3
LOPEZ	5.7	5.0	7.0	6.0	4.0	5.5	4.8	5.0	4.0	5.2
PRO/CUP	5.4	4.3	6.8	5.9	4.2	5.7	3.2	5.7	2.7	4.9
18TH GREEN	4.2	3.7	6.2	5.4	3.0	4.2	2.8	4.7	1.3	4.0
CRENSHAW	4.8	4.0	4.7	3.4	3.2	5.5	2.0	3.7	3.7	3.9
LSD VALUE	1.1	1.1	1.8	2.5	1.0	1.6	1.6	2.7	2.1	0.6
C.V. (%)	19.8	12.7	28.2	46.7	16.6	22.1	23.5	27.9	24.6	29.1

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

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

TABLE 24.

BROWN PATCH RATINGS OF BENIGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA

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

NAME	IA1	IL1	IN1	MA1	MD1	MO1	MO2	NJ1	OH1	PA1	RI1	MEAN
PROVIDENCE	8.7	7.3	8.3	9.0	8.0	7.3	8.3	7.8	7.3	9.0	7.3	8.0
18TH GREEN	8.7	8.7	8.0	8.3	8.0	2.3	8.3	8.0	5.0	9.0	7.7	7.5
PENN G-6 (G-6)	9.0	8.0	7.3	9.0	8.3	2.3	7.7	7.0	7.3	9.0	7.0	7.5
SOUTHSHORE	8.7	8.3	7.0	9.0	8.3	2.0	8.0	7.2	7.0	9.0	6.7	7.4
TRUELINE	8.7	7.7	7.3	8.7	8.0	3.3	8.0	7.8	4.7	9.0	7.3	7.3
LOPEZ	8.3	8.3	6.3	8.3	8.0	4.0	6.7	7.7	6.3	8.8	7.0	7.3
PENNEAGLE	9.0	8.0	7.0	9.0	8.3	2.7	6.3	7.2	5.7	8.8	7.3	7.2
CATO	8.7	7.7	5.3	9.0	7.3	3.3	7.7	7.2	7.3	9.0	6.7	7.2
PENN G-2 (G-2)	8.3	6.7	5.3	9.0	7.7	2.7	8.3	7.2	7.7	8.0	8.3	7.2
CRENSHAW	8.7	7.7	6.0	9.0	7.7	2.0	6.7	8.2	7.7	9.0	6.3	7.2
PRO/CUP	8.0	7.3	6.7	9.0	8.0	2.7	7.7	7.5	5.7	9.0	7.0	7.1
SEASIDE II (DF-1)	7.0	7.0	6.0	9.0	8.0	3.3	8.0	7.2	5.3	8.7	7.3	7.0
PENNCROSS	8.3	8.3	7.3	8.3	8.0	3.0	5.3	6.0	5.3	8.8	5.7	6.8
BAR WS 42102	8.0	8.0	5.3	8.3	7.0	2.3	7.7	6.2	6.7	8.7	6.3	6.8
EXETER	3.7	6.0	7.0	8.3	7.3	3.7	4.7	4.7	6.7	6.0	5.7	5.8
SEASIDE	6.7	6.0	5.3	8.0	7.7	2.7	5.7	4.8	2.7	8.3	5.7	5.8
BAR AS 492	4.7	4.3	3.0	7.0	7.0	4.7	3.7	4.3	4.7	5.5	7.0	5.1
ISI-AT-90162	3.3	3.7	3.7	7.3	7.3	3.0	5.3	4.7	2.0	5.5	7.0	4.8
SR 7100	2.7	5.0	2.0	5.7	6.7	7.3	5.0	6.0	2.0	5.2	5.0	4.8
TIGER (OM-AT-90163)	3.7	2.7	2.0	6.0	6.7	2.0	2.7	4.3	5.0	4.7	4.3	4.0
TENDENZ	3.3	5.3	2.3	7.3	6.7	2.0	3.0	4.2	1.7	3.7	3.7	3.9
LSD VALUE	1.6	2.6	1.9	1.8	1.3	1.6	2.3	1.4	3.9	1.5	1.7	0.6
C.V. (%)	14.5	24.3	20.8	13.8	10.7	30.3	22.1	18.9	44.6	16.9	16.5	20.7

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

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

TABLE 25. PERCENT DOLLAR SPOT (JUNE) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE 2/
 1994-97 DATA 3/

NAME	KY1
CRENSHAW	27.0
18TH GREEN	26.7
BAR WS 42102	21.3
CATO	19.0
TRUELINE	18.7
PENN G-6 (G-6)	18.0
SEASIDE II (DF-1)	14.7
PENNEAGLE	14.3
SOUTHSHORE	14.3
PRO/CUP	12.7
PROVIDENCE	12.7
PENN G-2 (G-2)	12.3
PENNCROSS	11.7
LOPEZ	4.3
SR 7100	3.7
ISI-AT-90162	1.7
SEASIDE	1.0
TIGER (OM-AT-90163)	1.0
BAR AS 492	0.0
EXETER	0.0
TENDENZ	0.0
LSD VALUE	13.0
C.V. (%)	72.2

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

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

3/ PERCENT DOLLAR SPOT (JUNE) RATED IN 1995.

TABLE 26. BLACK CUTWORM RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

BLACK CUTWORM RATINGS 1-9; 9=NO DAMAGE 3/

NAME	OH1
TIGER (OM-AT-90163)	8.3
PENNCROSS	8.0
SEASIDE	8.0
SR 7100	8.0
TRUELINE	8.0
EXETER	7.7
PROVIDENCE	7.7
18TH GREEN	7.3
ISI-AT-90162	7.3
PENN G-6 (G-6)	7.3
PENNEAGLE	7.3
SEASIDE II (DF-1)	7.3
TENDENZ	7.3
BAR AS 492	7.0
CATO	7.0
CRENSHAW	7.0
PENN G-2 (G-2)	6.7
SOUTHSHORE	6.7
LOPEZ	6.3
PRO/CUP	6.3
BAR WS 42102	6.0
LSD VALUE	1.5
C.V. (%)	12.5

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

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

3/ BLACK CUTWORM RATED IN 1995.

TABLE 27. SEEDHEAD RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

SEEDHEAD RATINGS 1-9; 9=NONE 3/

NAME	PA1
EXETER	9.0
SEASIDE	9.0
BAR WS 42102	8.3
SEASIDE II (DF-1)	8.3
CRENSHAW	8.0
PENNCROSS	8.0
TIGER (OM-AT-90163)	8.0
PENN G-2 (G-2)	7.7
PENN G-6 (G-6)	7.7
PENNEAGLE	7.7
PRO/CUP	7.7
SR 7100	7.7
TENDENZ	7.7
TRUELINE	7.7
PROVIDENCE	7.3
ISI-AT-90162	7.0
LOPEZ	7.0
SOUTHSHORE	7.0
CATO	4.7
BAR AS 492	4.0
18TH GREEN	3.3
LSD VALUE	1.6
C.V. (%)	13.4

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

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

3/ SEEDHEAD RATED IN 1994.

TABLE 28. PERCENT TYPHULA BLIGHT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE 2/
1994-97 DATA 3/

NAME	PA1
SEASIDE II (DF-1)	78.3
PENN G-2 (G-2)	71.7
PENN G-6 (G-6)	65.0
BAR WS 42102	60.0
CRENSHAW	58.3
SEASIDE	56.7
TRUELINE	55.0
LOPEZ	50.0
SOUTHSHORE	48.3
PROVIDENCE	46.7
PRO/CUP	43.3
PENNCROSS	38.3
18TH GREEN	37.0
BAR AS 492	36.7
CATO	31.7
EXETER	31.7
PENNEAGLE	25.0
TIGER (OM-AT-90163)	21.7
ISI-AT-90162	17.7
SR 7100	17.3
TENDENZ	12.0
LSD VALUE	26.3
C.V. (%)	38.1

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

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

3/ PERCENT TYPHULA BLIGHT RATED IN 1996.

TABLE 29. WINTER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 3/

NAME	WA3
BAR WS 42102	7.8
ISI-AT-90162	7.8
SOUTHSHORE	7.2
SR 7100	7.2
PENN G-2 (G-2)	6.8
BAR AS 492	6.7
PROVIDENCE	6.5
TIGER (OM-AT-90163)	6.3
TRUELINE	6.2
18TH GREEN	6.0
PENN G-6 (G-6)	6.0
CATO	5.8
LOPEZ	5.8
PENNEAGLE	5.5
CRENSHAW	5.3
SEASIDE II (DF-1)	5.3
EXETER	5.0
PRO/CUP	5.0
TENDENZ	5.0
PENNCROSS	4.7
SEASIDE	2.8
LSD VALUE	0.9
C.V. (%)	14.0

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

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

3/ WINTER DENSITY RATED IN 1995 AND 1996.

TABLE 30. PERCENT POA ANNUA (MAY) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE 2/
1994-97 DATA 3/

NAME	IL1
BAR AS 492	65.0
PENN G-2 (G-2)	45.0
SR 7100	45.0
TENDENZ	45.0
LOPEZ	35.0
BAR WS 42102	30.0
PENN G-6 (G-6)	30.0
18TH GREEN	28.3
ISI-AT-90162	28.3
PRO/CUP	26.7
TRUELINE	26.7
CATO	20.0
EXETER	20.0
SEASIDE II (DF-1)	20.0
TIGER (OM-AT-90163)	20.0
PENNEAGLE	16.7
SOUTHSHORE	16.7
PROVIDENCE	15.0
CRENSHAW	13.3
SEASIDE	11.7
PENNCROSS	10.0
LSD VALUE	17.0
C.V. (%)	39.0

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

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

3/ PERCENT POA ANNUA (MAY) RATED IN 1994.

TABLE 31. POA ANNUA RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

POA ANNUA RATINGS 1-9; 9=NO POA ANNUA 3/

NAME	PA1
PENNEAGLE	9.0
PROVIDENCE	9.0
PENNCROSS	8.7
CRENSHAW	8.3
PRO/CUP	8.3
SEASIDE II (DF-1)	8.3
SOUTHSHORE	8.3
BAR WS 42102	8.0
LOPEZ	8.0
PENN G-2 (G-2)	7.7
PENN G-6 (G-6)	7.7
CATO	7.3
SR 7100	7.3
TRUELINE	7.3
BAR AS 492	6.7
ISI-AT-90162	6.7
TIGER (OM-AT-90163)	6.7
18TH GREEN	6.3
SEASIDE	6.3
TENDENZ	6.3
EXETER	3.0
LSD VALUE	1.3
C.V. (%)	10.8

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

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

3/ POA ANNUA RATED IN 1996.

TABLE 32. SCALPING RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

SCALPING RATINGS 1-9; 9=NONE 3/			
NAME	NJ1	PA1	MEAN
TRUELINE	7.3	8.0	7.7
18TH GREEN	7.3	7.7	7.5
CATO	7.7	7.3	7.5
LOPEZ	7.0	8.0	7.5
ISI-AT-90162	6.0	8.7	7.3
SR 7100	6.0	8.7	7.3
TENDENZ	5.3	9.0	7.2
TIGER (OM-AT-90163)	5.3	9.0	7.2
BAR AS 492	4.7	8.7	6.7
CRENSHAW	7.7	5.3	6.5
PENNEAGLE	5.7	7.3	6.5
PENNCROSS	5.0	7.3	6.2
SOUTHSHORE	6.3	6.0	6.2
PRO/CUP	5.7	6.0	5.8
PROVIDENCE	6.0	5.7	5.8
BAR WS 42102	6.7	4.7	5.7
EXETER	2.3	8.3	5.3
SEASIDE	2.0	7.7	4.8
SEASIDE II (DF-1)	4.0	5.7	4.8
PENN G-2 (G-2)	6.3	2.7	4.5
PENN G-6 (G-6)	6.7	2.3	4.5
LSD VALUE	1.4	1.7	1.1
C.V. (%)	15.0	15.3	15.2

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

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

3/ SCALPING RATED AT "NJ1" IN 1994 AND AT "PA1" IN 1995.

TABLE 33. DORMANCY UNIFORMITY (DECEMBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

DORMANCY UNIFORMITY RATINGS 1-9; 9=COMPLETE UNIFORM 3/

NAME	NJ1
PENNEAGLE	8.0
SEASIDE II (DF-1)	8.0
PENN G-2 (G-2)	7.3
PENN G-6 (G-6)	7.3
CATO	7.0
PENNCROSS	7.0
LOPEZ	6.7
BAR AS 492	6.3
CRENSHAW	6.3
EXETER	6.3
PROVIDENCE	6.3
SOUTHSHORE	6.3
TRUELINE	6.3
PRO/CUP	6.0
BAR WS 42102	5.3
ISI-AT-90162	5.0
SR 7100	5.0
18TH GREEN	4.7
SEASIDE	4.7
TENDENZ	4.7
TIGER (OM-AT-90163)	4.7
LSD VALUE	1.5
C.V. (%)	14.9

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

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

3/ DORMANCY UNIFORMITY (DECEMBER) RATED IN 1996.

TABLE 34. FALL VERDURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

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

NAME	WA3
BAR AS 492	9.0
TIGER (OM-AT-90163)	9.0
ISI-AT-90162	8.7
SR 7100	8.3
LOPEZ	7.7
PENNCROSS	7.7
BAR WS 42102	7.0
SEASIDE	7.0
EXETER	6.7
PRO/CUP	6.7
CRENSHAW	6.3
SOUTHSHORE	6.3
TENDENZ	6.0
18TH GREEN	5.7
PENN G-6 (G-6)	5.7
TRUELINE	5.7
SEASIDE II (DF-1)	5.3
PENN G-2 (G-2)	4.3
PENNEAGLE	4.0
PROVIDENCE	3.7
CATO	2.7
LSD VALUE	2.4
C.V. (%)	23.1

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

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

3/ FALL VERDURE RATED IN 1995.

TABLE 35. WINTER VERDURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

WINTER VERDURE RATINGS 1-9; 9=BEST 3/

NAME	WA3
BAR AS 492	7.3
SR 7100	6.7
ISI-AT-90162	6.0
PRO/CUP	5.7
TIGER (OM-AT-90163)	5.7
EXETER	5.3
LOPEZ	5.3
TRUELINE	5.0
PENNCROSS	4.7
TENDENZ	4.7
SOUTHSHORE	4.3
PENN G-6 (G-6)	4.0
SEASIDE II (DF-1)	3.7
18TH GREEN	3.3
PROVIDENCE	3.3
SEASIDE	3.3
BAR WS 42102	3.0
PENNEAGLE	3.0
CRENSHAW	2.7
CATO	2.3
PENN G-2 (G-2)	2.0
LSD VALUE	1.6
C.V. (%)	22.4

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

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

3/ WINTER VERDURE RATED IN 1996.

TABLE 36. VERTICAL GROWTH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

VERTICAL GROWTH RATINGS 1-9; 9=MOST GROWTH 3/

NAME	WA3
SEASIDE	7.7
EXETER	6.3
TIGER (OM-AT-90163)	6.0
CRENSHAW	5.7
PENNCROSS	5.7
PROVIDENCE	5.3
TENDENZ	5.3
PENNEAGLE	5.0
PRO/CUP	5.0
SOUTHSHORE	5.0
SR 7100	5.0
LOPEZ	4.3
SEASIDE II (DF-1)	4.3
CATO	4.0
TRUELINE	4.0
PENN G-6 (G-6)	3.7
BAR WS 42102	3.3
ISI-AT-90162	3.3
18TH GREEN	3.0
BAR AS 492	2.7
PENN G-2 (G-2)	2.3
LSD VALUE	1.1
C.V. (%)	15.2

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

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

3/ VERTICAL GROWTH RATED IN 1994.

TABLE 37. THATCH ASHED DRY WEIGHT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
1994-97 DATA 2/

THATCH ASHED DRY WEIGHT: KG./SQ.M. 3/

NAME	WA3
BAR AS 492	2.70
PENNCROSS	2.69
CATO	2.66
TRUELINE	2.61
PENN G-2 (G-2)	2.60
PROVIDENCE	2.60
PENN G-6 (G-6)	2.59
LOPEZ	2.58
CRENSHAW	2.52
ISI-AT-90162	2.51
SR 7100	2.49
TENDENZ	2.46
TIGER (OM-AT-90163)	2.43
18TH GREEN	2.41
EXETER	2.41
BAR WS 42102	2.40
PRO/CUP	2.39
SOUTHSHORE	2.36
PENNEAGLE	2.35
SEASIDE	2.28
SEASIDE II (DF-1)	2.24
LSD VALUE	0.71
C.V. (%)	25.03

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

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

3/ THATCH ASHED DRY WEIGHT RATED IN 1995 AND 1996.

TABLE 38. DOLLAR SPOT RATINGS OF BENIGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT MADISON, WI 1/
1994-97 DATA 2/

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

NAME	JUNE	JULY	MEAN
EXETER	5.0	9.0	7.0
SEASIDE	5.0	9.0	7.0
BAR AS 492	4.7	9.0	6.8
TENDENZ	4.7	9.0	6.8
SR 7100	4.3	9.0	6.7
PENNEAGLE	3.7	9.0	6.3
SEASIDE II (DF-1)	3.7	9.0	6.3
TIGER (OM-AT-90163)	3.7	9.0	6.3
ISI-AT-90162	3.0	9.0	6.0
PROVIDENCE	3.7	8.3	6.0
18TH GREEN	4.7	7.0	5.8
PENN G-2 (G-2)	3.7	8.0	5.8
PENNCROSS	3.7	8.0	5.8
CATO	4.3	7.0	5.7
PRO/CUP	4.7	6.7	5.7
SOUTHSHORE	3.3	7.7	5.5
TRUELINE	4.0	7.0	5.5
BAR WS 42102	4.0	6.3	5.2
LOPEZ	4.0	6.3	5.2
PENN G-6 (G-6)	4.3	5.3	4.8
CRENSHAW	6.0	1.7	3.8
LSD VALUE	1.4	2.3	1.2
C.V. (%)	17.3	18.4	11.7

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

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

3/ DOLLAR SPOT RATED IN 1996.

TABLE 39. PYTHIUM BLIGHT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT CHARLOTTESVILLE, VA 1/
1994-97 DATA 2/

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

NAME	JUNE	AUGUST	MEAN
PENNCROSS	8.3	8.7	8.5
BAR AS 492	8.3	8.3	8.3
PENNEAGLE	8.0	8.7	8.3
SEASIDE	8.0	8.7	8.3
SEASIDE II (DF-1)	7.7	8.7	8.2
ISI-AT-90162	7.3	8.7	8.0
TIGER (OM-AT-90163)	7.3	8.7	8.0
TRUELINE	7.7	8.3	8.0
PENN G-6 (G-6)	7.0	8.7	7.8
PRO/CUP	8.3	7.3	7.8
CATO	8.0	7.3	7.7
PENN G-2 (G-2)	7.0	8.3	7.7
PROVIDENCE	8.0	7.3	7.7
SR 7100	7.0	8.3	7.7
EXETER	6.7	8.3	7.5
TENDENZ	7.0	8.0	7.5
18TH GREEN	7.0	7.7	7.3
CRENSHAW	6.7	8.0	7.3
LOPEZ	7.0	7.7	7.3
BAR WS 42102	7.0	7.3	7.2
SOUTHSHORE	7.0	6.7	6.8
LSD VALUE	3.2	3.7	2.7
C.V. (%)	13.7	14.3	10.9

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

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

3/ PYTHIUM BLIGHT RATED IN 1996.