

CONTENTS

1989 National Bentgrass (Fairway/Tee) Test - 1990-93 data

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

NATIONAL BENTGRASS (FAIRWAY/TEE) TEST, 1989 - Entries and Sponsors.....2

Table A - 1990-93 Locations, Site Descriptions and Management Practices  
in the 1989 National Bentgrass (Fairway/Tee) Test.....3

Table B - Locations and Data Collected in 1990-93.....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 - Seedling Vigor Ratings of Bentgrass Cultivars Grown on a  
Fairway or Tee.....15

Table 10 - Spring Density Ratings of Bentgrass Cultivars Grown on a  
Fairway or Tee.....16

Table 11 - Summer Density Ratings of Bentgrass Cultivars Grown on a  
Fairway or Tee.....17

Table 12 - Fall Density Ratings of Bentgrass Cultivars Grown on a  
Fairway or Tee.....18

Table 13 - Percent Living Ground Cover (Spring) Ratings of Bentgrass  
Cultivars Grown on a Fairway or Tee.....19

CONTENTS (Continued)

|   |    |
|---|----|
| Table 14 - Percent Living Ground Cover (Fall) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee..... | 20 |
| Table 15 - Winter Color Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                       | 21 |
| Table 16 - Thatch Measurements of Bentgrass Cultivars Grown on a Fairway or Tee.....                        | 22 |
| Table 17 - Thatch Ashed Dry Weight of Bentgrass Cultivars Grown on a Fairway or Tee.....                    | 23 |
| Table 18 - Fusarium Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                     | 24 |
| Table 19 - Leaf Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                          | 25 |
| Table 20 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                        | 26 |
| Table 21 - Red Thread Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                         | 27 |
| Table 22 - Brown Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                        | 28 |
| Table 23 - Take-All Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                     | 29 |
| Table 24 - Chinch Bug Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                         | 30 |
| Table 25 - Uniformity Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                         | 31 |
| Table 26 - Scalping Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                           | 32 |
| Table 27 - Herbicide Injury Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                   | 33 |
| Table 28 - Poa Annua Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....                          | 34 |
| Table 29 - Percent Poa Annua (January) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....        | 35 |
| Table 30 - Percent Poa Annua (February) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....       | 36 |
| Table 31 - Percent Poa Annua (April) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....          | 37 |

CONTENTS (Continued)

|   |    |
|---|----|
| Table 32 - Percent Poa Annua (May) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....       | 38 |
| Table 33 - Percent Poa Annua (June) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....      | 39 |
| Table 34 - Percent Poa Annua (July) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....      | 40 |
| Table 35 - Percent Poa Annua (August) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....    | 41 |
| Table 36 - Percent Poa Annua (September) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee..... | 42 |
| Table 37 - Percent Poa Annua (October) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....   | 43 |
| Table 38 - Percent Poa Annua (December) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....  | 44 |
| Table 39 - Percent Poa Annua (Mean) Ratings of Bentgrass Cultivars<br>Grown on a Fairway or Tee.....      | 45 |

LOCATIONS SUBMITTING DATA FOR 1990-93

| <u>State</u> | <u>Location</u>                     | <u>Code</u> |
|--------------|-------------------------------------|-------------|
| California   | Santa Clara                         | CA1         |
| Illinois     | Urbana                              | IL1         |
| Indiana      | West Lafayette                      | IN1         |
| Kansas       | Manhattan                           | KS1         |
| Kansas       | Wichita                             | KS2         |
| Kentucky     | Lexington                           | KY1         |
| Maryland     | Beltsville                          | UB1         |
| Maryland     | Silver Spring                       | MD1         |
| Maryland     | Lothian<br>(Old South Country Club) | MD2         |
| Michigan     | East Lansing                        | MI1         |
| New Jersey   | North Brunswick                     | NJ1         |
| New Jersey   | Martinsville                        | NJ3         |
| Ohio         | Columbus                            | OH1         |
| Ohio         | Marysville                          | OH2         |
| Ontario      | Guelph                              | ON1         |
| Oregon       | Halsey                              | OR3         |
| Oregon       | Corvallis                           | OR4         |
| Oregon       | Tangent                             | OR5         |
| Rhode Island | Kingston                            | RI1         |
| Texas        | Dallas                              | TX1         |
| Virginia     | Fairfax<br>(Riverbend Country Club) | VA5         |
| Washington   | Puyallup                            | WA3         |

1989 NATIONAL BENTGRASS TEST

(Fairway/Tee)

Entries and Sponsors

| <u>Entry No.</u> | <u>Name</u>            | <u>Species</u>                   | <u>Sponsor</u>            |
|------------------|------------------------|----------------------------------|---------------------------|
| 1                | BR 1518                | A. castellana<br>(dryland bent)  | USGA Green Section        |
| 2                | Carmen                 | creeping                         | Advanta Seeds West, Inc.  |
| 3                | Tracenta               | colonial                         | Advanta Seeds West, Inc.  |
| 4                | Putter                 | creeping                         | Jacklin Seed Co.          |
| 5                | SR 1020                | creeping                         | Seed Research of OR, Inc. |
| 6                | Providence             | creeping                         | Seed Research of OR, Inc. |
| 7                | Bardot                 | colonial                         | Barenbrug USA             |
| 8                | Penncross              | creeping                         | Tee-2-Green Corp.         |
| 9                | Penneagle              | creeping                         | Tee-2-Green Corp.         |
| 10               | Egmont                 | A. capillaris<br>(browntop bent) | Olsen-Fennell Seed Co.    |
| 11               | Regent (Nomarc 101)    | creeping                         | Barenbrug USA             |
| 12               | PRO/CUP (Forbes 89-12) | creeping                         | Forbes Seed & Grain, Inc. |
| 13               | Lopez (WVPB 89-D-15)   | creeping                         | Finelawn Research Corp.   |
| 14               | National               | creeping                         | Pickseed West, Inc.       |
| 15               | 88.CBE                 | creeping                         | International Seeds, Inc. |
| 16               | Viper (88.CBL)         | creeping                         | International Seeds, Inc. |
| 17               | Cobra                  | creeping                         | International Seeds, Inc. |
| 18               | Emerald                | creeping                         | International Seeds, Inc. |
| 19               | TAMU 88-1              | creeping                         | Texas A&M University      |
| 20               | Allure                 | colonial                         | Willamette Seed Co.       |

TABLE A. 1990-1993 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 1989 NATIONAL BENTGRASS (FAIRWAY/TEE) TEST

| LOCATION | SOIL TEXTURE        | SOIL PH | SOIL PHOSPHOROUS (LBS/ACRE) | SOIL POTASSIUM (LBS/ACRE) | NITROGEN (LBS/1000 SQ FT) | SUN OR SHADE | MOWING HEIGHT (IN) | IRRIGATION PRACTICED |
|----------|---------------------|---------|-----------------------------|---------------------------|---------------------------|--------------|--------------------|----------------------|
| CA1      | LOAM                | 6.1-6.5 | 61-150                      | 0-150                     | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| IL1      | SILT LOAM AND SILT  | -       | -                           | -                         | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| IN1      | SILT LOAM AND SILT  | 7.1-7.5 | 151-270                     | 376-500                   | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| KS1      | 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    |
| 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 | 271-450                     | 241-375                   | 2.1-3.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT STRESS    |
| MD1      | SILT LOAM AND SILT  | 5.6-6.0 | 61-150                      | 241-375                   | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| MD2      | SILT LOAM AND SILT  | 6.6-7.0 | 61-150                      | 151-240                   | 3.1-4.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT STRESS    |
| MI1      | SANDY LOAM          | 7.1-7.5 | -                           | -                         | 8.1+                      | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| NJ1      | LOAM                | 6.1-6.5 | 61-150                      | 0-150                     | 2.1-3.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT STRESS    |
| NJ3      | SILT LOAM AND SILT  | 6.6-7.0 | 151-270                     | 501+                      | 4.1-5.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| OH1      | SILTY CLAY LOAM     | 7.1-7.5 | 271-450                     | 0-150                     | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| OH2      | SILTY CLAY LOAM     | -       | -                           | -                         | 4.1-5.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT DORMANCY  |
| ON1      | SANDY LOAM          | 6.6-7.0 | -                           | -                         | 1.1-2.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| OR3      | LOAM                | 4.6-5.5 | 0-60                        | 151-240                   | 4.1-5.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| OR4      | SILTY CLAY AND CLAY | 5.6-6.0 | -                           | -                         | 4.1-5.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT DORMANCY  |
| OR5      | SILT LOAM AND SILT  | 6.1-6.5 | -                           | -                         | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT DORMANCY  |
| RI1      | SILT LOAM AND SILT  | 6.6-7.0 | 151-270                     | 0-150                     | 3.1-4.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT STRESS    |
| TX1      | SILTY CLAY AND CLAY | 7.6-8.5 | 451+                        | 501+                      | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| UB1      | SILT LOAM AND SILT  | 4.6-5.5 | 61-150                      | 0-150                     | 3.1-4.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT DORMANCY  |
| VA5      | SILTY CLAY LOAM     | 6.1-6.5 | 271-450                     | 241-375                   | 4.1-5.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |
| WA3      | SANDY LOAM          | 5.6-6.0 | 61-150                      | 151-240                   | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS    |

TABLE B. LOCATIONS AND DATA COLLECTED IN 1990-1993

| LOCATION | JANUARY<br>QUALITY<br>RATING | FEBRUARY<br>QUALITY<br>RATING | MARCH<br>QUALITY<br>RATING | APRIL<br>QUALITY<br>RATING | MAY<br>QUALITY<br>RATING | JUNE<br>QUALITY<br>RATING | JULY<br>QUALITY<br>RATING | AUGUST<br>QUALITY<br>RATING | SEPTEMBER<br>QUALITY<br>RATING | OCTOBER<br>QUALITY<br>RATING | NOVEMBER<br>QUALITY<br>RATING | DECEMBER<br>QUALITY<br>RATING | GENETIC<br>COLOR<br>RATING | SPRING<br>GREENUP<br>RATING |
|----------|------------------------------|-------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|---------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------------|-----------------------------|
| CA1      | X                            | X                             | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             | X                          |                             |
| IL1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               |                            |                             |
| IN1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              |                              |                               |                               |                            | X                           |
| KS1      |                              |                               |                            |                            |                          |                           |                           |                             |                                | X                            | X                             |                               |                            |                             |
| KS2      |                              |                               |                            |                            | X                        | X                         | X                         | X                           |                                |                              |                               |                               |                            |                             |
| KY1      |                              |                               | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               |                            |                             |
| MD1      | X                            |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             |                            | X                           |
| MD2      |                              |                               |                            |                            |                          |                           |                           |                             |                                |                              |                               |                               |                            |                             |
| MI1      |                              |                               |                            |                            | X                        | X                         | X                         | X                           | X                              |                              |                               |                               |                            |                             |
| NJ1      |                              |                               | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             |                               | X                          | X                           |
| NJ3      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             |                               | X                          | X                           |
| OH1      |                              |                               |                            |                            |                          |                           |                           |                             | X                              |                              |                               |                               | X                          |                             |
| OH2      |                              |                               |                            |                            | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                          |                             |
| ON1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                          |                             |
| OR3      | X                            | X                             | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             | X                          |                             |
| OR4      |                              |                               |                            |                            |                          |                           | X                         | X                           | X                              | X                            | X                             |                               |                            |                             |
| OR5      |                              |                               |                            |                            |                          |                           |                           |                             |                                | X                            |                               |                               | X                          |                             |
| RI1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             |                               | X                          | X                           |
| TX1      |                              | X                             | X                          |                            |                          |                           |                           |                             |                                |                              |                               |                               |                            |                             |
| UB1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             |                               |                            |                             |
| VA5      |                              | X                             |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             |                            |                             |
| WA3      | 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<br>TEXTURE<br>RATING | SEEDLING<br>VIGOR | SPRING<br>DENSITY | SUMMER<br>DENSITY | FALL<br>DENSITY | PERCENT<br>COVER<br>SPRING | PERCENT<br>COVER<br>FALL | WINTER<br>COLOR | THATCH<br>MEASUREMENTS | FUSARIUM<br>PATCH | LEAF<br>SPOT | DOLLAR<br>SPOT | RED<br>THREAD | BROWN<br>PATCH | TAKE-ALL<br>PATCH | CHINCH<br>BUG |
|----------|---------------------------|-------------------|-------------------|-------------------|-----------------|----------------------------|--------------------------|-----------------|------------------------|-------------------|--------------|----------------|---------------|----------------|-------------------|---------------|
| CA1      | X                         |                   | X                 | X                 | X               |                            |                          |                 | X                      |                   |              |                |               |                |                   |               |
| IL1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               | X              |                   |               |
| IN1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              | X              |               | X              |                   |               |
| KS1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| KS2      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| KY1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| MD1      |                           | X                 |                   |                   |                 |                            |                          | X               | X                      |                   |              | X              |               | X              |                   | X             |
| MD2      |                           | X                 |                   |                   |                 |                            | X                        |                 |                        |                   |              |                |               |                |                   |               |
| MI1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| NJ1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              | X              |               | X              |                   |               |
| NJ3      | X                         |                   | X                 | X                 | X               |                            |                          | X               |                        |                   |              | X              |               | X              |                   |               |
| OH1      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| OH2      |                           |                   | X                 | X                 |                 |                            |                          |                 |                        |                   | X            |                |               | X              |                   |               |
| ON1      |                           | X                 |                   | X                 | X               |                            |                          |                 |                        |                   |              | X              |               |                |                   |               |
| OR3      | X                         |                   | X                 | X                 | X               |                            | X                        |                 |                        |                   |              |                |               |                |                   |               |
| OR4      |                           |                   |                   |                   |                 |                            |                          |                 |                        |                   |              |                |               |                |                   |               |
| OR5      |                           | X                 |                   |                   |                 |                            |                          |                 |                        |                   | X            |                |               |                |                   |               |
| RI1      |                           |                   |                   | X                 |                 |                            |                          |                 |                        |                   |              | X              | X             |                |                   | X             |
| TX1      |                           |                   |                   |                   |                 | X                          |                          |                 |                        |                   |              |                |               |                |                   |               |
| UB1      |                           |                   |                   |                   |                 |                            | X                        |                 |                        |                   |              | X              |               | X              | X                 |               |
| VA5      |                           |                   |                   |                   |                 |                            | X                        | X               |                        |                   |              |                |               | X              |                   |               |
| WA3      |                           | X                 | X                 | X                 | X               |                            |                          | X               | X                      | X                 |              |                |               |                |                   |               |



TABLE B. (CONTINUED)

LOCATIONS AND DATA COLLECTED IN 1990-1993

| LOCATION | UNIFORMITY RATING | SCALPING RATING | HERBICIDE INJURY | PERCENT POA ANNUA | 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 | PERCENT POA DECEMBER | PERCENT POA AVERAGE |
|----------|-------------------|-----------------|------------------|-------------------|---------------------|----------------------|-------------------|-----------------|------------------|------------------|--------------------|-----------------------|---------------------|----------------------|---------------------|
| CA1      |                   |                 |                  |                   | X                   | X                    | X                 | X               | X                | X                | X                  | X                     | X                   |                      |                     |
| IL1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| IN1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| KS1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| KS2      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| KY1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| MD1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| MD2      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| MI1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| NJ1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| NJ3      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| OH1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| OH2      | X                 |                 |                  | X                 |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      | X                   |
| ON1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| OR3      |                   | X               |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| OR4      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| OR5      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| RI1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| TX1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| UB1      |                   |                 |                  |                   |                     |                      |                   |                 |                  |                  |                    |                       |                     |                      |                     |
| VA5      |                   |                 |                  |                   |                     | X                    | X                 | X               | X                | X                | X                  | X                     |                     | X                    |                     |
| WA3      |                   |                 | 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 1990-1993 DATA

| NAME                     | TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/ |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | MEAN |     |
|--------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
|                          | CA1  | IL1 | IN1 | KS1 | KS2 | KY1 | MD1 | MI1 | NJ1 | NJ3 | OH1 | OH2 | ON1 | OR3 | OR4 | OR5 | RI1 | TX1 | UB1 | VA5 |      | WA3 |
| * PROVIDENCE             | 6.4  | 6.3 | 7.0 | 5.5 | 8.4 | 7.1 | 6.4 | 6.8 | 6.8 | 6.5 | 7.0 | 5.9 | 7.5 | 6.0 | 7.5 | 5.3 | 5.0 | 2.8 | 5.9 | 5.8 | 5.2  | 6.2 |
| * PRO/CUP (FORBES 89-12) | 6.3  | 6.1 | 6.5 | 6.0 | 8.2 | 6.4 | 6.2 | 6.1 | 6.4 | 5.3 | 8.0 | 6.3 | 7.5 | 6.2 | 6.9 | 6.0 | 4.4 | 3.5 | 5.1 | 5.7 | 4.9  | 6.1 |
| * PUTTER                 | 7.1  | 6.1 | 6.9 | 6.0 | 8.1 | 6.1 | 6.5 | 5.9 | 6.1 | 5.9 | 8.7 | 6.2 | 7.0 | 5.8 | 6.9 | 4.7 | 4.6 | 2.3 | 4.8 | 6.0 | 5.7  | 6.1 |
| * PENNEAGLE              | 6.6  | 6.4 | 6.7 | 5.7 | 7.8 | 6.5 | 6.4 | 7.1 | 6.3 | 5.8 | 8.0 | 6.6 | 6.9 | 5.7 | 5.6 | 6.3 | 4.8 | 2.8 | 5.1 | 5.6 | 4.8  | 6.1 |
| * PENNCROSS              | 6.6  | 5.7 | 6.9 | 5.8 | 7.7 | 6.0 | 5.9 | 6.3 | 5.9 | 5.6 | 7.7 | 6.3 | 7.0 | 5.8 | 5.9 | 7.0 | 4.4 | 3.0 | 5.1 | 6.7 | 5.3  | 6.0 |
| * REGENT (NORMARC 101)   | 6.7  | 6.3 | 6.6 | 6.0 | 7.9 | 6.0 | 6.5 | 6.4 | 6.3 | 5.3 | 7.0 | 6.1 | 7.0 | 5.8 | 6.1 | 5.0 | 4.5 | 3.5 | 5.3 | 5.9 | 4.8  | 6.0 |
| * LOPEZ (WVPB 89-D-15)   | 6.2  | 5.3 | 6.4 | 6.0 | 7.9 | 6.4 | 6.4 | 6.7 | 6.2 | 6.1 | 7.3 | 6.0 | 7.3 | 5.9 | 6.3 | 6.3 | 4.5 | 2.7 | 5.1 | 5.0 | 4.9  | 6.0 |
| * VIPER (88.CBL)         | .  | 5.2 | .   | 6.2 | 7.9 | 6.8 | 6.5 | 6.4 | 6.3 | .   | 7.3 | .   | 7.7 | 6.4 | .   | .   | 4.7 | 2.2 | 5.1 | 5.2 | 4.8  | 5.9 |
| * COBRA                  | 6.7  | 5.5 | 6.5 | 6.0 | 7.8 | 6.7 | 6.4 | 6.2 | 6.3 | 5.8 | 7.3 | 6.1 | 7.2 | 5.9 | 5.4 | 6.0 | 4.5 | 2.0 | 5.0 | 5.3 | 4.9  | 5.9 |
| TAMU 88-1                | 6.5  | .   | 6.1 | 6.7 | 7.6 | 5.8 | 6.2 | 6.6 | 5.6 | .   | 6.0 | 6.1 | 7.0 | 5.4 | 5.3 | 6.0 | 4.3 | 2.5 | 4.4 | 5.7 | 5.2  | 5.7 |
| * SR 1020                | 6.2  | 5.8 | 6.4 | 5.8 | 7.9 | 6.3 | 6.0 | 6.5 | 5.5 | 5.6 | 7.0 | 6.1 | 6.9 | 5.6 | 7.0 | 3.3 | 4.1 | 2.3 | 4.6 | 4.8 | 5.1  | 5.7 |
| * CARMEN                 | 6.3  | 6.1 | 6.6 | 5.8 | 7.1 | 5.9 | 5.8 | 6.2 | 5.3 | 5.6 | 7.7 | 5.8 | 6.6 | 5.6 | 5.4 | 5.0 | 4.3 | 2.0 | 4.4 | 5.4 | 4.8  | 5.6 |
| 88.CBE                   | .  | 6.0 | .   | 5.8 | .   | 6.4 | .   | 6.8 | 6.3 | .   | 6.7 | .   | .   | 6.3 | .   | .   | 4.5 | 2.2 | 5.4 | 5.7 | 4.5  | 5.6 |
| * NATIONAL               | 5.8  | 4.9 | 6.6 | 6.2 | 7.2 | 6.4 | 6.1 | 6.4 | 4.4 | 5.2 | 7.3 | 5.7 | 6.7 | 4.8 | 5.4 | 5.7 | 4.4 | 2.8 | 4.3 | 4.9 | 4.5  | 5.5 |
| * EMERALD                | 5.6  | 4.4 | 6.2 | 6.5 | 6.9 | 5.6 | 6.2 | 6.0 | 4.6 | 4.6 | 8.0 | 5.3 | 6.4 | 5.4 | 5.6 | 6.3 | 4.1 | 2.7 | 3.8 | 6.3 | 4.8  | 5.5 |
| * BARDOT                 | 5.0  | 4.8 | 5.3 | 6.2 | 5.3 | 5.4 | 6.3 | 6.1 | 5.5 | 4.1 | 5.7 | 5.4 | 7.9 | 4.1 | 5.5 | 6.7 | 5.0 | 2.3 | 5.4 | 5.3 | 5.3  | 5.4 |
| * EGMONT                 | 5.4  | 4.9 | 5.1 | 5.2 | 5.3 | 6.1 | 6.0 | 6.5 | 5.1 | 4.2 | 5.7 | 4.8 | 7.5 | 4.1 | 5.5 | 7.0 | 4.9 | 1.8 | 5.9 | 5.0 | 5.6  | 5.3 |
| * TRACENTA               | 4.7  | 4.9 | 5.4 | 4.8 | 5.0 | 5.6 | 6.0 | 6.3 | 5.7 | 3.6 | 5.7 | 5.4 | 8.0 | 3.7 | 5.1 | 5.0 | 4.7 | 1.3 | 5.6 | 5.3 | 5.3  | 5.1 |
| ALLURE                   | 5.2  | .   | 4.3 | 5.7 | 4.6 | 5.4 | 6.0 | 6.1 | 4.4 | 3.7 | .   | 4.9 | 6.9 | 3.8 | 4.7 | 6.3 | 4.5 | 1.3 | 4.1 | 4.8 | 5.2  | 4.8 |
| BR 1518                  | 4.1  | 3.5 | 4.2 | 5.2 | 5.0 | 4.6 | 5.7 | 5.6 | 4.2 | 2.6 | 6.3 | 4.6 | 7.5 | 2.4 | 2.9 | 6.0 | 4.6 | 1.8 | 4.3 | 4.4 | 4.5  | 4.5 |
| LSD VALUE                | 0.4  | 0.6 | 0.5 | 1.3 | 0.8 | 0.8 | 0.4 | 0.7 | 0.6 | 0.6 | 1.5 | 0.7 | 0.7 | 0.4 | 0.8 | 2.0 | 0.8 | 1.4 | 0.8 | 0.7 | 0.4  | 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 FAIRWAY OR TEE AT TWENTY-ONE LOCATIONS IN THE U.S. AND CANADA 1990-1993 DATA

| NAME                   | TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/ |     |     |     |     |     |     |     |     |     |     |     | MEAN |
|------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                        | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |      |
| PROVIDENCE             | 4.9  | 4.3 | 5.9 | 6.0 | 6.4 | 6.6 | 6.6 | 6.5 | 6.4 | 6.2 | 5.7 | 5.1 | 6.3  |
| RUTTER                 | 5.4  | 4.9 | 5.7 | 5.5 | 6.2 | 6.4 | 6.4 | 6.2 | 6.0 | 5.6 | 5.4 | 5.8 | 6.0  |
| FENNEAGLE              | 5.1  | 4.4 | 5.5 | 5.5 | 6.0 | 6.2 | 6.3 | 6.1 | 6.1 | 5.8 | 5.6 | 5.3 | 6.0  |
| PRO/CUP (FORBES 89-12) | 4.8  | 4.2 | 5.7 | 5.4 | 6.1 | 6.4 | 6.3 | 6.0 | 5.8 | 5.7 | 5.4 | 5.2 | 6.0  |
| FENNCROSS              | 5.2  | 5.1 | 5.9 | 5.6 | 6.1 | 6.2 | 6.1 | 5.8 | 5.7 | 5.7 | 5.3 | 5.7 | 5.9  |
| REGENT (NORMARC 101)   | 5.2  | 4.8 | 5.8 | 5.5 | 5.9 | 6.2 | 6.2 | 6.0 | 5.8 | 5.8 | 5.4 | 5.8 | 5.9  |
| COBRA                  | 5.2  | 4.7 | 5.6 | 5.8 | 5.9 | 6.1 | 6.1 | 5.9 | 5.8 | 5.8 | 5.3 | 5.8 | 5.9  |
| LOPEZ (WVPB 89-D-15)   | 5.0  | 4.4 | 5.5 | 5.5 | 5.9 | 6.1 | 6.1 | 5.9 | 5.8 | 5.7 | 5.4 | 5.4 | 5.9  |
| VIPER (88.CBL)         | 5.4  | 4.5 | 5.6 | 5.6 | 5.8 | 6.1 | 6.1 | 5.9 | 5.8 | 5.9 | 5.3 | 5.6 | 5.8  |
| TAMU 88-1              | 5.7  | 5.0 | 5.5 | 5.2 | 5.8 | 5.8 | 5.7 | 5.5 | 5.6 | 5.7 | 5.3 | 5.5 | 5.7  |
| SR 1020                | 5.2  | 4.5 | 5.8 | 5.3 | 5.8 | 5.8 | 5.9 | 5.7 | 5.6 | 5.3 | 5.2 | 5.2 | 5.6  |
| 88.CBE                 | 4.6  | 4.4 | 5.6 | 5.4 | 5.8 | 5.9 | 5.9 | 5.8 | 5.7 | 5.8 | 5.0 | 5.3 | 5.6  |
| CARMEN                 | 5.0  | 4.3 | 5.3 | 5.1 | 5.8 | 5.9 | 5.8 | 5.6 | 5.5 | 5.3 | 4.9 | 5.3 | 5.6  |
| NATIONAL               | 4.7  | 4.5 | 4.8 | 4.7 | 5.1 | 5.3 | 5.6 | 5.6 | 5.5 | 5.5 | 5.1 | 5.2 | 5.4  |
| EMERALD                | 4.8  | 4.5 | 4.9 | 4.8 | 5.3 | 5.2 | 5.4 | 5.4 | 5.3 | 5.2 | 5.0 | 5.4 | 5.3  |
| EGMONT                 | 4.9  | 5.0 | 5.0 | 5.3 | 5.2 | 5.4 | 5.2 | 5.1 | 5.3 | 5.6 | 5.1 | 5.3 | 5.3  |
| EARDOT                 | 4.2  | 4.9 | 5.2 | 5.3 | 5.1 | 5.2 | 5.2 | 5.1 | 5.3 | 5.6 | 5.1 | 5.0 | 5.3  |
| TRACENTA               | 4.2  | 4.4 | 5.0 | 5.4 | 5.2 | 5.2 | 5.1 | 4.9 | 5.1 | 5.3 | 4.8 | 5.0 | 5.2  |
| ALLURE                 | 4.5  | 4.8 | 5.0 | 5.1 | 4.7 | 4.7 | 4.5 | 4.6 | 4.7 | 5.1 | 4.8 | 4.8 | 4.8  |
| ER 1518                | 4.1  | 4.0 | 4.0 | 4.2 | 4.1 | 4.0 | 4.0 | 4.1 | 4.4 | 4.7 | 4.3 | 4.3 | 4.3  |
| LSD VALUE              | 0.6  | 0.8 | 0.7 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 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 FAIRWAY OR TEE AT TWENTY-ONE LOCATIONS IN THE U.S. AND CANADA 1/  
1990-1993 DATA

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

| NAME                   | CA1 | IL1 | IN1 | KS1  | KS2  | KY1 | MD1 | MI1  | NJ1 | NJ3 | OH1  | OH2 | ON1 | OR3 | OR4  | OR5  | RI1 | TX1  | UB1 | VA5 | WA3 | MEAN |
|------------------------|-----|-----|-----|------|------|-----|-----|------|-----|-----|------|-----|-----|-----|------|------|-----|------|-----|-----|-----|------|
| PROVIDENCE             | 7   | 3   | 1   | 17.0 | 1.0  | 1   | 7   | 3.0  | 1   | 1   | 12.0 | 10  | 6   | 4   | 1.0  | 13.0 | 1   | 5.0  | 2   | 5   | 6   | 1    |
| PRO/CUP (FORBES 89-12) | 8   | 4   | 8   | 8.0  | 2.0  | 6   | 11  | 17.0 | 2   | 10  | 3.0  | 3   | 4   | 3   | 3.5  | 9.5  | 14  | 1.5  | 10  | 6   | 10  | 2    |
| PUTTER                 | 1   | 6   | 2   | 8.0  | 3.0  | 10  | 3   | 19.0 | 9   | 3   | 1.0  | 4   | 11  | 9   | 3.5  | 17.0 | 8   | 11.0 | 13  | 3   | 1   | 3    |
| PENNEAGLE              | 4   | 1   | 4   | 15.5 | 9.0  | 4   | 6   | 1.0  | 3   | 5   | 3.0  | 1   | 16  | 10  | 8.5  | 5.5  | 4   | 5.0  | 11  | 9   | 13  | 4    |
| PENNCROSS              | 5   | 9   | 3   | 12.5 | 10.0 | 13  | 17  | 12.0 | 10  | 8   | 5.5  | 2   | 13  | 8   | 7.0  | 1.5  | 15  | 3.0  | 8   | 1   | 3   | 5    |
| REGENT (NORMARC 101)   | 3   | 2   | 7   | 8.0  | 4.0  | 12  | 2   | 8.5  | 6   | 9   | 12.0 | 8   | 12  | 7   | 6.0  | 15.0 | 9   | 1.5  | 6   | 4   | 17  | 6    |
| LOPEZ (WVPB 89-D-15)   | 10  | 11  | 11  | 8.0  | 6.5  | 8   | 4   | 4.0  | 8   | 2   | 8.5  | 9   | 8   | 6   | 5.0  | 5.5  | 12  | 7.5  | 7   | 16  | 12  | 7    |
| VIPER (88.CBL)         | .   | 12  | .   | 4.0  | 6.5  | 2   | 1   | 8.5  | 4   | .   | 8.5  | .   | 3   | 1   | .    | .    | 6   | 13.5 | 9   | 14  | 14  | 8    |
| COBRA                  | 2   | 10  | 9   | 8.0  | 8.0  | 3   | 5   | 14.0 | 5   | 4   | 8.5  | 6   | 9   | 5   | 13.0 | 9.5  | 13  | 15.5 | 12  | 12  | 11  | 9    |
| TAMU 88-1              | 6   | .   | 13  | 1.0  | 11.0 | 15  | 10  | 5.0  | 12  | .   | 16.0 | 7   | 10  | 13  | 15.0 | 9.5  | 18  | 9.0  | 16  | 8   | 8   | 10   |
| SR 1020                | 11  | 8   | 10  | 12.5 | 5.0  | 9   | 14  | 6.0  | 13  | 7   | 12.0 | 5   | 14  | 11  | 2.0  | 18.0 | 19  | 11.0 | 14  | 18  | 9   | 11   |
| CARMEN                 | 9   | 5   | 5   | 12.5 | 13.0 | 14  | 18  | 13.0 | 15  | 6   | 5.5  | 11  | 18  | 12  | 13.0 | 15.0 | 17  | 15.5 | 15  | 10  | 15  | 12   |
| 88.CBE                 | .   | 7   | .   | 12.5 | .    | 5   | .   | 2.0  | 7   | .   | 14.0 | .   | .   | 2   | .    | .    | 10  | 13.5 | 5   | 7   | 18  | 13   |
| NATIONAL               | 12  | 15  | 6   | 4.0  | 12.0 | 7   | 12  | 10.0 | 18  | 11  | 8.5  | 12  | 17  | 15  | 13.0 | 12.0 | 16  | 5.0  | 17  | 17  | 20  | 14   |
| EMERALD                | 13  | 17  | 12  | 2.0  | 14.0 | 17  | 9   | 18.0 | 17  | 12  | 3.0  | 15  | 19  | 14  | 8.5  | 5.5  | 20  | 7.5  | 20  | 2   | 16  | 15   |
| BARDOT                 | 16  | 16  | 15  | 4.0  | 15.0 | 19  | 8   | 15.0 | 14  | 14  | 18.0 | 13  | 2   | 17  | 10.5 | 3.0  | 2   | 11.0 | 4   | 11  | 4   | 16   |
| EGMONT                 | 14  | 13  | 16  | 18.5 | 16.0 | 11  | 15  | 7.0  | 16  | 13  | 18.0 | 17  | 7   | 16  | 10.5 | 1.5  | 3   | 17.5 | 1   | 15  | 2   | 17   |
| TRACENTA               | 17  | 14  | 14  | 20.0 | 17.0 | 16  | 13  | 11.0 | 11  | 16  | 18.0 | 14  | 1   | 19  | 16.0 | 15.0 | 5   | 19.5 | 3   | 13  | 5   | 18   |
| ALLURE                 | 15  | .   | 17  | 15.5 | 19.0 | 18  | 16  | 16.0 | 19  | 15  | .    | 16  | 15  | 18  | 17.0 | 5.5  | 11  | 19.5 | 19  | 19  | 7   | 19   |
| BR 1518                | 18  | 18  | 18  | 18.5 | 18.0 | 20  | 19  | 20.0 | 20  | 17  | 15.0 | 18  | 5   | 20  | 18.0 | 9.5  | 7   | 17.5 | 18  | 20  | 19  | 20   |

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

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

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE FOR EACH YEAR IN THE U.S. AND CANADA 1990-1993 DATA

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

| NAME                   | 1990<br>MEAN | 1991<br>MEAN | 1992<br>MEAN | 1993<br>MEAN | 1990-93<br>MEAN |
|------------------------|--------------|--------------|--------------|--------------|-----------------|
| PROVIDENCE             | 6.48         | 6.24         | 6.29         | 5.99         | 6.24            |
| PRO/CUP (FORBES 89-12) | 6.33         | 5.96         | 5.85         | 5.66         | 6.09            |
| PUTTER                 | 6.01         | 6.13         | 5.89         | 6.02         | 6.06            |
| PENNEAGLE              | 6.03         | 5.96         | 6.04         | 5.99         | 6.06            |
| PENNCROSS              | 6.12         | 5.92         | 5.85         | 5.88         | 6.02            |
| REGENT (NORMARC 101)   | 5.94         | 5.91         | 5.94         | 5.83         | 5.95            |
| LOPEZ (WVPB 89-D-15)   | 6.10         | 5.90         | 5.74         | 5.71         | 5.95            |
| VIPER (88.CBL)         | 5.95         | 5.89         | 5.76         | 5.80         | 5.91            |
| COBRA                  | 5.90         | 5.91         | 5.87         | 5.77         | 5.89            |
| TAMU 88-1              | 5.64         | 5.68         | 5.67         | 5.71         | 5.74            |
| SR 1020                | 5.79         | 5.69         | 5.57         | 5.43         | 5.67            |
| CARMEN                 | 5.49         | 5.63         | 5.63         | 5.52         | 5.61            |
| 88.CBE                 | 5.39         | 5.14         | 6.04         | 5.82         | 5.55            |
| NATIONAL               | 5.47         | 5.35         | 5.40         | 5.20         | 5.50            |
| EMERALD                | 5.43         | 5.38         | 5.14         | 5.21         | 5.48            |
| BARDOT                 | 5.57         | 5.27         | 5.31         | 4.97         | 5.35            |
| EGMONT                 | 5.39         | 5.32         | 5.31         | 5.13         | 5.31            |
| TRACENTA               | 5.31         | 5.04         | 5.26         | 5.04         | 5.10            |
| ALLURE                 | 4.70         | 4.84         | 4.81         | 4.85         | 4.84            |
| BR 1518                | 4.35         | 4.23         | 4.31         | 4.54         | 4.46            |
| LSD VALUE              | 0.26         | 0.22         | 0.25         | 0.26         | 0.16            |

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 FAIRWAY OR TEE FOR EACH YEAR IN THE U.S. AND CANADA 1/ 1990-1993 DATA

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

| NAME                   | 1990<br>MEAN | 1991<br>MEAN | 1992<br>MEAN | 1993<br>MEAN | 1990-93<br>MEAN |
|------------------------|--------------|--------------|--------------|--------------|-----------------|
| PROVIDENCE             | 1            | 1            | 1            | 2            | 1               |
| PRO/CUP (FORBES 89-12) | 2            | 3            | 7            | 11           | 2               |
| PUTTER                 | 6            | 2            | 5            | 1            | 3               |
| PENNEAGLE              | 5            | 4            | 3            | 3            | 4               |
| PENNCROSS              | 3            | 5            | 8            | 4            | 5               |
| REGENT (NORMARC 101)   | 8            | 7            | 4            | 5            | 6               |
| LOPEZ (WVPB 89-D-15)   | 4            | 8            | 10           | 10           | 7               |
| VIPER (88.CBL)         | 7            | 9            | 9            | 7            | 8               |
| COBRA                  | 9            | 6            | 6            | 8            | 9               |
| TAMU 88-1              | 11           | 11           | 11           | 9            | 10              |
| SR 1020                | 10           | 10           | 13           | 13           | 11              |
| CARMEN                 | 13           | 12           | 12           | 12           | 12              |
| 88.CBE                 | 17           | 17           | 2            | 6            | 13              |
| NATIONAL               | 14           | 14           | 14           | 15           | 14              |
| EMERALD                | 15           | 13           | 18           | 14           | 15              |
| BARDOT                 | 12           | 16           | 16           | 18           | 16              |
| EGMONT                 | 16           | 15           | 15           | 16           | 17              |
| TRACENTA               | 18           | 18           | 17           | 17           | 18              |
| ALLURE                 | 19           | 19           | 19           | 19           | 19              |
| BR 1518                | 20           | 20           | 20           | 20           | 20              |

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 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 FAIRWAY OR TEE  
1990-1993 DATA

| NAME                   | GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/ |     |     |     |     |     |     |     |     |     | MEAN |
|------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                        | CA1  | NJ1 | NJ3 | OH1 | OH2 | ON1 | OR3 | OR5 | RI1 | WA3 |      |
| VIPER (88.CBL)         | .  | 6.7 | .   | 7.3 | .   | 7.5 | 7.2 | .   | 6.7 | 6.8 | 7.0  |
| 88.CBE                 | .  | 7.3 | .   | 6.7 | .   | .   | 7.5 | .   | 6.3 | 7.2 | 7.0  |
| PRO/CUP (FORBES 89-12) | 7.0  | 8.0 | 5.7 | 7.7 | 7.5 | 6.0 | 7.2 | 4.3 | 6.7 | 7.2 | 6.7  |
| PROVIDENCE             | 7.0  | 7.0 | 6.7 | 7.0 | 7.8 | 6.3 | 7.2 | 4.7 | 6.7 | 6.3 | 6.7  |
| COBRA                  | 7.3  | 6.0 | 6.0 | 7.7 | 7.7 | 5.7 | 6.5 | 5.3 | 6.0 | 6.8 | 6.5  |
| LOPEZ (WVPB 89-D-15)   | 7.3  | 7.3 | 6.3 | 7.3 | 7.3 | 5.3 | 6.7 | 5.0 | 5.7 | 6.7 | 6.5  |
| SR 1020                | 7.0  | 6.0 | 5.9 | 7.0 | 7.5 | 4.5 | 6.8 | 5.3 | 6.7 | 6.5 | 6.3  |
| REGENT (NORMARC 101)   | 7.7  | 5.7 | 5.3 | 7.3 | 7.5 | 4.7 | 6.5 | 5.7 | 6.0 | 6.7 | 6.3  |
| PENNCROSS              | 8.0  | 5.7 | 5.7 | 8.0 | 7.2 | 4.5 | 6.3 | 5.3 | 5.3 | 5.8 | 6.2  |
| TRACENTA               | 5.3  | 4.7 | 4.5 | 6.3 | 7.2 | 7.7 | 6.5 | 6.7 | 5.0 | 7.0 | 6.1  |
| PUTTER                 | 7.7  | 5.0 | 5.6 | 8.0 | 7.2 | 3.0 | 6.3 | 5.3 | 5.7 | 6.8 | 6.1  |
| TAMU 88-1              | 8.0  | 4.7 | .   | 6.0 | 7.0 | 4.0 | 6.2 | 5.7 | 5.3 | 6.8 | 6.0  |
| PENNEAGLE              | 7.3  | 5.0 | 5.6 | 7.7 | 7.5 | 3.8 | 6.3 | 5.3 | 4.7 | 6.3 | 6.0  |
| BR 1518                | 6.0  | 5.0 | 3.5 | 7.3 | 7.2 | 6.3 | 6.2 | 7.0 | 4.7 | 5.8 | 5.9  |
| CARMEN                 | 7.0  | 5.3 | 5.5 | 7.7 | 7.0 | 3.0 | 6.0 | 5.3 | 5.3 | 6.5 | 5.9  |
| EGMONT                 | 5.3  | 3.7 | 4.5 | 6.3 | 7.0 | 5.8 | 5.5 | 8.0 | 5.0 | 5.5 | 5.7  |
| BARDOT                 | 5.0  | 3.7 | 4.6 | 6.0 | 7.0 | 6.2 | 5.5 | 5.7 | 4.7 | 6.3 | 5.5  |
| NATIONAL               | 7.0  | 4.3 | 4.8 | 7.7 | 7.0 | 1.3 | 5.5 | 3.0 | 5.7 | 5.7 | 5.2  |
| EMERALD                | 7.0  | 3.3 | 4.4 | 7.7 | 7.0 | 1.3 | 5.7 | 4.3 | 5.0 | 5.2 | 5.1  |
| ALLURE                 | 6.0  | 3.0 | 4.2 | .   | 7.0 | 3.8 | 5.7 | 6.3 | 4.7 | 3.7 | 4.9  |
| LSD VALUE              | 0.9  | 1.1 | 0.5 | 1.2 | 0.5 | 1.4 | 0.8 | 1.2 | 1.1 | 1.6 | 0.4  |

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

TABLE 7. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

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

| NAME                   | IN1 | MD1 | NJ1 | NJ3 | RI1 | MEAN |
|------------------------|-----|-----|-----|-----|-----|------|
| ALLURE                 | 3.2 | 7.0 | 8.0 | 7.0 | 4.3 | 5.9  |
| BARDOT                 | 2.8 | 8.0 | 7.3 | 6.3 | 3.7 | 5.6  |
| BR 1518                | 2.3 | 7.3 | 8.3 | 5.0 | 4.7 | 5.5  |
| TRACENTA               | 3.3 | 7.7 | 7.7 | 4.7 | 3.3 | 5.3  |
| NATIONAL               | 4.8 | 6.0 | 5.7 | 5.7 | 4.3 | 5.3  |
| EGMONT                 | 3.0 | 6.7 | 7.0 | 5.7 | 4.0 | 5.3  |
| EMERALD                | 3.7 | 6.0 | 6.0 | 5.3 | 4.0 | 5.0  |
| REGENT (NORMARC 101)   | 3.3 | 6.0 | 4.0 | 5.0 | 4.7 | 4.6  |
| PENNEAGLE              | 3.5 | 5.3 | 3.0 | 5.3 | 5.3 | 4.5  |
| PUTTER                 | 3.5 | 5.7 | 3.3 | 4.0 | 4.7 | 4.2  |
| TAMU 88-1              | 3.2 | 5.3 | 2.7 | .   | 5.0 | 4.0  |
| PENNCROSS              | 3.3 | 5.3 | 2.0 | 5.7 | 3.7 | 4.0  |
| PROVIDENCE             | 3.0 | 5.7 | 2.7 | 5.3 | 3.3 | 4.0  |
| LOPEZ (WVPB 89-D-15)   | 2.8 | 5.3 | 2.0 | 5.3 | 4.0 | 3.9  |
| COBRA                  | 2.7 | 5.7 | 3.0 | 4.3 | 3.3 | 3.8  |
| VIPER (88.CBL)         | .   | 5.7 | 1.7 | .   | 4.0 | 3.8  |
| CARMEN                 | 3.0 | 5.0 | 1.7 | 4.0 | 4.3 | 3.6  |
| SR 1020                | 3.0 | 4.3 | 1.3 | 4.3 | 5.0 | 3.6  |
| PRO/CUP (FORBES 89-12) | 2.2 | 5.0 | 2.0 | 4.0 | 4.3 | 3.5  |
| 88.CBE                 | .   | .   | 2.0 | .   | 4.7 | 3.3  |
| LSD VALUE              | 1.0 | 0.8 | 1.2 | 1.3 | 1.7 | 0.6  |

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



TABLE 8. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

| NAME                   | CA1 | NJ3 | OR3 | MEAN |
|------------------------|-----|-----|-----|------|
| SR 1020                | 7.0 | 6.5 | 7.0 | 6.8  |
| COBRA                  | 6.7 | 6.2 | 6.7 | 6.5  |
| PROVIDENCE             | 6.3 | 6.5 | 6.7 | 6.5  |
| TAMU 88-1              | 7.0 | .   | 6.0 | 6.5  |
| LOPEZ (WVPB 89-D-15)   | 6.7 | 6.2 | 6.3 | 6.4  |
| PRO/CUP (FORBES 89-12) | 6.0 | 5.8 | 7.3 | 6.4  |
| PUTTER                 | 7.0 | 6.1 | 6.0 | 6.4  |
| VIPER (88.CBL)         | .   | .   | 6.3 | 6.3  |
| CARMEN                 | 7.0 | 5.9 | 6.0 | 6.3  |
| BARDOT                 | 8.0 | 5.8 | 5.0 | 6.3  |
| REGENT (NORMARC 101)   | 7.0 | 5.9 | 5.7 | 6.2  |
| PENNEAGLE              | 7.3 | 5.5 | 5.7 | 6.2  |
| 88.CBE                 | .   | .   | 6.0 | 6.0  |
| PENNCROSS              | 6.3 | 5.7 | 6.0 | 6.0  |
| NATIONAL               | 6.0 | 5.5 | 6.3 | 5.9  |
| EMERALD                | 7.0 | 4.8 | 5.3 | 5.7  |
| EGMONT                 | 6.0 | 5.7 | 5.3 | 5.7  |
| TRACENTA               | 7.0 | 5.0 | 4.0 | 5.3  |
| ALLURE                 | 6.0 | 4.8 | 3.3 | 4.7  |
| BR 1518                | 5.3 | 3.6 | 3.0 | 4.0  |
| LSD VALUE              | 1.1 | 0.6 | 1.0 | 0.6  |

1/ LEAF TEXTURE RATED AT "CA1" IN 1993, AT "NJ3" IN 1990-93 AND AT "OR3" 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 9. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

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

| NAME                   | MD1 | MD2 | ON1 | OR5 | WA3 | MEAN |
|------------------------|-----|-----|-----|-----|-----|------|
| EMERALD                | 7.7 | .   | 7.7 | 5.3 | 8.0 | 7.2  |
| VIPER (88.CBL)         | 7.7 | .   | 5.7 | .   | 5.7 | 6.3  |
| PROVIDENCE             | 7.3 | 4.0 | 7.3 | 5.0 | 7.7 | 6.3  |
| BR 1518                | 8.0 | 2.3 | 6.0 | 7.7 | 6.7 | 6.1  |
| NATIONAL               | 7.3 | 3.3 | 7.7 | 5.7 | 6.7 | 6.1  |
| PUTTER                 | 8.3 | 3.0 | 7.0 | 5.0 | 6.7 | 6.0  |
| REGENT (NORMARC 101)   | 8.7 | 3.7 | 6.0 | 4.7 | 6.7 | 5.9  |
| EGMONT                 | 6.7 | 2.7 | 4.7 | 7.0 | 8.0 | 5.8  |
| PRO/CUP (FORBES 89-12) | 7.0 | 3.3 | 7.7 | 4.0 | 6.7 | 5.7  |
| COBRA                  | 6.7 | .   | 5.0 | 4.7 | 6.3 | 5.7  |
| PENNCROSS              | 7.0 | 3.0 | 5.0 | 5.3 | 8.0 | 5.7  |
| LOPEZ (WVPB 89-D-15)   | 7.7 | 3.7 | 6.3 | 4.0 | 6.3 | 5.6  |
| SR 1020                | 7.0 | 3.3 | 5.3 | 4.7 | 7.0 | 5.5  |
| TAMU 88-1              | 8.0 | 2.7 | 5.3 | 5.0 | 6.3 | 5.5  |
| PENNEAGLE              | 7.7 | 2.7 | 4.0 | 4.7 | 6.7 | 5.1  |
| BARDOT                 | 6.0 | 2.3 | 5.7 | 4.7 | 6.7 | 5.1  |
| ALLURE                 | 6.7 | 2.0 | 2.7 | 6.0 | 6.7 | 4.8  |
| 88.CBE                 | .   | 3.0 | .   | .   | 6.0 | 4.5  |
| CARMEN                 | 5.7 | 2.0 | 3.0 | 4.0 | 4.7 | 3.9  |
| TRACENTA               | 5.3 | 1.0 | 3.7 | 4.3 | 4.7 | 3.8  |
| LSD VALUE              | 1.7 | 1.0 | 2.3 | 1.0 | 1.6 | 0.8  |

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

TABLE 10. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

| NAME                   | DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY |     |     |     |     | MEAN |
|------------------------|--|-----|-----|-----|-----|------|
|                        | CA1                                    | NJ3 | OH2 | OR3 | WA3 |      |
| PUTTER                 | 7.3                                    | 6.3 | 8.0 | 5.3 | 7.0 | 6.8  |
| SR 1020                | 6.8                                    | 6.3 | 7.0 | 6.0 | 7.3 | 6.7  |
| COBRA                  | 7.3                                    | 6.3 | 7.7 | 5.3 | 6.7 | 6.7  |
| PROVIDENCE             | 7.2                                    | 6.8 | 6.7 | 5.3 | 7.0 | 6.6  |
| CARMEN                 | 7.0                                    | 5.9 | 6.7 | 5.7 | 7.3 | 6.5  |
| PENNCROSS              | 6.8                                    | 6.7 | 8.0 | 5.3 | 4.7 | 6.3  |
| TAMU 88-1              | 6.7                                    | .   | 7.0 | 6.0 | 5.3 | 6.3  |
| LOPEZ (WVPB 89-D-15)   | 6.8                                    | 6.6 | 6.3 | 5.7 | 5.7 | 6.2  |
| PENNEAGLE              | 6.7                                    | 6.2 | 8.3 | 5.3 | 4.3 | 6.2  |
| REGENT (NORMARC 101)   | 7.5                                    | 5.6 | 8.0 | 5.3 | 4.3 | 6.2  |
| PRO/CUP (FORBES 89-12) | 7.0                                    | 5.8 | 7.3 | 5.7 | 4.7 | 6.1  |
| EMERALD                | 6.8                                    | 4.7 | 7.0 | 5.7 | 5.0 | 5.8  |
| NATIONAL               | 6.0                                    | 6.3 | 7.0 | 4.7 | 4.3 | 5.7  |
| VIPER (88.CBL)         | .                                      | .   | .   | 5.3 | 6.0 | 5.7  |
| BARDOT                 | 6.3                                    | 4.5 | 5.3 | 4.3 | 7.7 | 5.6  |
| 88.CBE                 | .                                      | .   | .   | 5.3 | 5.7 | 5.5  |
| ALLURE                 | 6.5                                    | 4.3 | 4.0 | 3.3 | 7.3 | 5.1  |
| EGMONT                 | 6.0                                    | 4.6 | 4.3 | 2.7 | 6.7 | 4.9  |
| TRACENTA               | 5.8                                    | 4.2 | 4.3 | 3.0 | 6.7 | 4.8  |
| BR 1518                | 4.8                                    | 2.8 | 5.0 | 2.3 | 4.0 | 3.8  |
| LSD VALUE              | 1.2                                    | 0.8 | 2.0 | 0.9 | 2.1 | 0.7  |

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

TABLE 11. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

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

| NAME                   | CA1 | NJ3 | OH2 | ON1 | OR3 | RI1 | WA3 | MEAN |
|------------------------|-----|-----|-----|-----|-----|-----|-----|------|
| PUTTER                 | 7.3 | 6.7 | 7.0 | 9.0 | 5.0 | 3.0 | 6.0 | 6.3  |
| PENNEAGLE              | 7.5 | 6.3 | 6.2 | 9.0 | 5.0 | 3.0 | 6.7 | 6.2  |
| PRO/CUP (FORBES 89-12) | 6.8 | 6.3 | 6.0 | 9.0 | 5.3 | 3.0 | 7.0 | 6.2  |
| REGENT (NORMARC 101)   | 6.8 | 5.7 | 5.5 | 9.0 | 5.7 | 3.7 | 7.0 | 6.2  |
| LOPEZ (WVPB 89-D-15)   | 6.8 | 6.6 | 6.5 | 9.0 | 5.0 | 3.0 | 6.0 | 6.1  |
| PENNCROSS              | 6.8 | 5.7 | 6.2 | 9.0 | 5.0 | 3.7 | 6.3 | 6.1  |
| PROVIDENCE             | 6.8 | 7.2 | 5.7 | 8.0 | 5.0 | 3.7 | 6.3 | 6.1  |
| VIPER (88.CBL)         | .   | .   | .   | 9.0 | 5.0 | 3.3 | 7.0 | 6.1  |
| TAMU 88-1              | 6.8 | .   | 5.8 | 9.0 | 5.7 | 3.0 | 6.0 | 6.1  |
| NATIONAL               | 6.5 | 5.8 | 5.3 | 9.0 | 4.0 | 3.3 | 7.7 | 5.9  |
| SR 1020                | 6.7 | 6.6 | 6.3 | 8.0 | 5.0 | 3.0 | 6.0 | 5.9  |
| EMERALD                | 6.7 | 5.0 | 5.8 | 9.0 | 5.7 | 2.3 | 6.0 | 5.8  |
| COBRA                  | 6.7 | 5.9 | 5.8 | 8.0 | 5.0 | 2.3 | 6.7 | 5.8  |
| CARMEN                 | 7.0 | 5.6 | 5.7 | 7.0 | 5.0 | 3.0 | 7.0 | 5.8  |
| BARDOT                 | 4.8 | 4.4 | 4.8 | 7.0 | 4.0 | 5.3 | 7.3 | 5.4  |
| TRACENTA               | 4.7 | 3.8 | 5.3 | 7.3 | 3.7 | 6.0 | 6.0 | 5.3  |
| 88.CBE                 | .   | .   | .   | .   | 4.7 | 3.0 | 7.7 | 5.1  |
| EGMONT                 | 5.2 | 4.6 | 3.8 | 6.0 | 3.7 | 5.7 | 6.0 | 5.0  |
| ALLURE                 | 6.3 | 3.7 | 4.5 | 4.3 | 3.3 | 5.3 | 6.3 | 4.8  |
| BR 1518                | 4.5 | 2.6 | 3.7 | 7.0 | 2.3 | 4.3 | 3.7 | 4.0  |
| LSD VALUE              | 1.1 | 0.7 | 1.2 | 2.2 | 0.7 | 1.2 | 2.8 | 0.5  |

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

TABLE 12. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

| NAME                   | DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY |     |     |     |     | MEAN |
|------------------------|--|-----|-----|-----|-----|------|
|                        | CA1                                    | NJ3 | ON1 | OR3 | WA3 |      |
| PROVIDENCE             | 6.2                                    | 6.5 | 8.0 | 8.0 | 8.7 | 7.5  |
| VIPER (88.CBL)         | .                                      | .   | 8.0 | 7.7 | 6.7 | 7.4  |
| PRO/CUP (FORBES 89-12) | 6.8                                    | 5.2 | 8.7 | 7.7 | 8.0 | 7.3  |
| PUTTER                 | 7.0                                    | 5.5 | 7.7 | 6.3 | 9.0 | 7.1  |
| SR 1020                | 6.5                                    | 5.4 | 7.3 | 7.3 | 8.7 | 7.1  |
| LOPEZ (WVPB 89-D-15)   | 6.7                                    | 5.8 | 8.0 | 7.3 | 7.3 | 7.0  |
| COBRA                  | 7.0                                    | 5.5 | 7.3 | 7.3 | 7.7 | 7.0  |
| TAMU 88-1              | 6.7                                    | .   | 8.0 | 7.0 | 5.7 | 6.8  |
| REGENT (NORMARC 101)   | 6.8                                    | 5.3 | 8.0 | 7.0 | 6.7 | 6.8  |
| EMERALD                | 6.5                                    | 4.3 | 8.3 | 7.3 | 6.7 | 6.6  |
| PENNEAGLE              | 6.3                                    | 5.8 | 6.7 | 7.0 | 7.0 | 6.6  |
| 88.CBE                 | .                                      | .   | .   | 7.7 | 5.3 | 6.5  |
| PENNCROSS              | 6.3                                    | 5.3 | 8.0 | 7.0 | 5.0 | 6.3  |
| NATIONAL               | 6.0                                    | 5.3 | 8.3 | 7.0 | 4.3 | 6.2  |
| BARDOT                 | 5.5                                    | 4.8 | 7.0 | 5.3 | 8.0 | 6.1  |
| CARMEN                 | 6.5                                    | 4.8 | 5.7 | 5.0 | 8.3 | 6.1  |
| TRACENTA               | 5.8                                    | 4.3 | 6.3 | 5.0 | 8.3 | 6.0  |
| EGMONT                 | 6.2                                    | 4.9 | 6.3 | 5.0 | 7.0 | 5.9  |
| ALLURE                 | 7.0                                    | 3.8 | 5.0 | 5.0 | 7.0 | 5.6  |
| BR 1518                | 5.8                                    | 3.0 | 7.3 | 6.7 | 2.7 | 5.1  |
| LSD VALUE              | 1.0                                    | 1.0 | 1.1 | 0.7 | 1.8 | 0.6  |

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

TABLE 13. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

| NAME                   | TX1  |
|------------------------|------|
| REGENT (NORMARC 101)   | 19.0 |
| TAMU 88-1              | 14.0 |
| PENNEAGLE              | 12.0 |
| PRO/CUP (FORBES 89-12) | 11.0 |
| PROVIDENCE             | 11.0 |
| EMERALD                | 10.3 |
| NATIONAL               | 9.3  |
| EGMONT                 | 8.7  |
| LOPEZ (WVPB 89-D-15)   | 8.7  |
| FUTTER                 | 8.3  |
| PENNCROSS              | 6.7  |
| ER 1518                | 6.3  |
| CARMEN                 | 6.3  |
| COBRA                  | 5.7  |
| ALLURE                 | 4.3  |
| BARDOT                 | 4.3  |
| TRACENTA               | 4.3  |
| 88.CBE                 | 4.0  |
| SR 1020                | 4.0  |
| VIPER (88.CBL)         | 3.7  |
| LSD VALUE              | 12.1 |

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 14. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

| PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/ |      |      |      |      |      |
|---|------|------|------|------|------|
| NAME  | MD2  | OR3  | UB1  | VA5  | MEAN |
| PENNCROSS   | 88.3 | 66.7 | 90.0 | 88.3 | 83.3 |
| REGENT (NORMARC 101)                              | 90.0 | 73.3 | 87.3 | 80.0 | 82.7 |
| EGMONT  | 73.3 | 66.7 | 94.7 | 80.0 | 78.7 |
| PUTTER  | 88.3 | 73.3 | 65.0 | 83.3 | 77.5 |
| CARMEN  | 86.7 | 70.0 | 75.0 | 75.0 | 76.7 |
| BARDOT  | 75.0 | 60.0 | 95.0 | 75.0 | 76.3 |
| PENNEAGLE   | 86.7 | 63.3 | 83.3 | 71.7 | 76.3 |
| 88.CBE  | 88.3 | 66.7 | 77.5 | 71.7 | 76.0 |
| TRACENTA  | 65.0 | 60.0 | 95.0 | 83.3 | 75.8 |
| PROVIDENCE  | 86.7 | 70.0 | 75.0 | 68.3 | 75.0 |
| NATIONAL  | 90.7 | 73.3 | 65.0 | 70.0 | 74.8 |
| PRO/CUP (FORBES 89-12)                            | 85.0 | 70.0 | 73.3 | 70.0 | 74.6 |
| VIPER (88.CBL)                                    | .    | 70.0 | 83.3 | 70.0 | 74.4 |
| LOPEZ (WVPB 89-D-15)                              | 90.0 | 63.3 | 75.0 | 58.3 | 71.7 |
| ALLURE  | 68.3 | 63.3 | 80.0 | 71.7 | 70.8 |
| BR 1518   | 58.3 | 76.7 | 85.0 | 63.3 | 70.8 |
| EMERALD   | .    | 66.7 | 70.0 | 75.0 | 70.6 |
| COBRA   | .    | 66.7 | 80.0 | 60.0 | 68.9 |
| TAMU 88-1   | 81.7 | 60.0 | 66.7 | 66.7 | 68.8 |
| SR 1020   | 85.0 | 60.0 | 68.3 | 51.7 | 66.3 |
| LSD VALUE   | 12.8 | 10.8 | 14.1 | 23.3 | 8.3  |

1/ PERCENT LIVING GROUND COVER (FALL) RATED AT "MD2" IN 1992, AT "OR3" & "VA5" IN 1990 AND AT "UB1" 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. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

| NAME                   | MD1 | NJ3 | VA5 | WA3 | MEAN |
|------------------------|-----|-----|-----|-----|------|
| EGMONT                 | 5.7 | 3.7 | 6.7 | 8.3 | 6.1  |
| BR 1518                | 6.7 | 3.3 | 5.0 | 7.8 | 5.7  |
| TRACENTA               | 5.3 | 2.3 | 6.3 | 7.0 | 5.3  |
| BARDOT                 | 5.3 | 3.0 | 5.7 | 6.5 | 5.1  |
| ALLURE                 | 5.0 | 3.3 | 6.0 | 6.0 | 5.1  |
| 88.CBE                 | .   | .   | 5.0 | 5.0 | 5.0  |
| TAMU 88-1              | 4.3 | .   | 5.7 | 4.7 | 4.9  |
| VIPER (88.CBL)         | 4.0 | .   | 5.0 | 4.8 | 4.6  |
| PUTTER                 | 4.3 | 1.3 | 5.0 | 6.3 | 4.3  |
| COBRA                  | 4.0 | 2.0 | 5.0 | 5.3 | 4.1  |
| PENNCROSS              | 4.0 | 1.7 | 5.7 | 4.8 | 4.0  |
| SR 1020                | 4.0 | 3.0 | 3.7 | 5.3 | 4.0  |
| EMERALD                | 4.3 | 2.0 | 5.0 | 4.5 | 4.0  |
| PROVIDENCE             | 4.0 | 1.7 | 5.0 | 4.8 | 3.9  |
| NATIONAL               | 4.0 | 1.7 | 5.0 | 4.3 | 3.8  |
| PENNEAGLE              | 4.0 | 1.0 | 5.0 | 5.0 | 3.8  |
| REGENT (NORMARC 101)   | 4.3 | 1.0 | 5.0 | 4.7 | 3.8  |
| CARMEN                 | 4.0 | 1.3 | 4.3 | 4.7 | 3.6  |
| LOPEZ (WVPB 89-D-15)   | 4.0 | 1.7 | 5.0 | 3.5 | 3.5  |
| PRO/CUP (FORBES 89-12) | 4.0 | 1.3 | 4.7 | 3.2 | 3.3  |
| LSD VALUE              | 0.6 | 1.1 | 1.0 | 1.1 | 0.6  |

1/ WINTER COLOR RATED AT "MD1", "NJ3" & "VA5" IN 1991 AND AT "WA3" IN 1991 & 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. THATCH MEASUREMENTS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

THATCH MEASUREMENTS IN MILLIMETERS 2/

| NAME                   | CA1  | MD1  | WA3  | MEAN |
|------------------------|------|------|------|------|
| 88.CBE                 | .    | .    | 37.3 | 37.3 |
| PUTTER                 | 34.3 | 15.0 | 35.3 | 28.2 |
| COBRA                  | 34.8 | 12.3 | 35.7 | 27.6 |
| LOPEZ (WVPB 89-D-15)   | 31.7 | 12.7 | 37.7 | 27.3 |
| REGENT (NORMARC 101)   | 34.8 | 12.0 | 34.7 | 27.2 |
| PENNCROSS              | 33.7 | 12.3 | 34.7 | 26.9 |
| PRO/CUP (FORBES 89-12) | 30.7 | 12.3 | 35.0 | 26.0 |
| PROVIDENCE             | 29.8 | 13.0 | 35.0 | 25.9 |
| PENNEAGLE              | 32.2 | 11.7 | 33.3 | 25.7 |
| CARMEN                 | 32.0 | 11.0 | 34.0 | 25.7 |
| EMERALD                | 28.5 | 12.3 | 35.3 | 25.4 |
| TAMU 88-1              | 28.3 | 11.0 | 35.0 | 24.8 |
| SR 1020                | 27.5 | 12.3 | 33.7 | 24.5 |
| NATIONAL               | 27.0 | 11.0 | 35.0 | 24.3 |
| VIPER (88.CBL)         | .    | 13.7 | 33.3 | 23.5 |
| ALLURE                 | 26.8 | 8.3  | 32.7 | 22.6 |
| EGMONT                 | 22.0 | 9.7  | 34.7 | 22.1 |
| TRACENTA               | 20.5 | 10.0 | 33.7 | 21.4 |
| BARDOT                 | 20.5 | 10.7 | 30.0 | 20.4 |
| BR 1518                | 17.8 | 8.3  | 33.3 | 19.8 |
| LSD VALUE              | 8.3  | 2.2  | 3.9  | 4.8  |

1/ THATCH MEASUREMENTS RATED AT "CA1" IN 1992 & 1993, AT "MD1" IN 1993 AND AT "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 17. THATCH ASHED DRY WEIGHT OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

| NAME                   | WA3  |
|------------------------|------|
| PENNEAGLE              | 13.7 |
| ER 1518                | 13.0 |
| LOPEZ (WVPB 89-D-15)   | 13.0 |
| NATIONAL               | 13.0 |
| PRO/CUP (FORBES 89-12) | 13.0 |
| COBRA                  | 12.7 |
| REGENT (NORMARC 101)   | 12.7 |
| CARMEN                 | 12.3 |
| EGMONT                 | 12.3 |
| VIPER (88.CBL)         | 12.3 |
| BARDOT                 | 12.0 |
| PENNCROSS              | 12.0 |
| PROVIDENCE             | 12.0 |
| SR 1020                | 12.0 |
| EMERALD                | 11.7 |
| BUTTER                 | 11.7 |
| TRACENTA               | 11.3 |
| 88.CBE                 | 11.0 |
| ALLURE                 | 11.0 |
| TAMU 88-1              | 10.7 |
| ISD VALUE              | 1.8  |

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 18. FUSARIUM PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

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

1/ FUSARIUM PATCH 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 19. LEAF SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

| NAME                   | OH2 | OR5 | MEAN |
|------------------------|-----|-----|------|
| TAMU 88-1              | 6.7 | 7.3 | 7.0  |
| PENNCROSS              | 6.7 | 7.0 | 6.8  |
| CARMEN                 | 6.3 | 7.0 | 6.7  |
| LOPEZ (WPB 89-D-15)    | 7.0 | 6.3 | 6.7  |
| PENNEAGLE              | 6.0 | 7.3 | 6.7  |
| COBRA                  | 6.0 | 7.0 | 6.5  |
| PRO/CUP (FORBES 89-12) | 6.7 | 6.3 | 6.5  |
| PROVIDENCE             | 6.7 | 6.3 | 6.5  |
| EMERALD                | 6.3 | 6.3 | 6.3  |
| PUTTER                 | 7.3 | 5.3 | 6.3  |
| BR 1518                | 7.0 | 5.0 | 6.0  |
| NATIONAL               | 6.3 | 5.7 | 6.0  |
| REGENT (NORMARC 101)   | 6.0 | 6.0 | 6.0  |
| TRACENTA               | 6.3 | 5.0 | 5.7  |
| ALLURE                 | 6.0 | 5.0 | 5.5  |
| BARDOT                 | 7.0 | 4.0 | 5.5  |
| SR 1020                | 6.7 | 4.3 | 5.5  |
| EGMONT                 | 6.0 | 4.0 | 5.0  |
| LSD VALUE              | 1.8 | 0.7 | 0.9  |

1/ LEAF SPOT RATED AT "OH2" IN 1991 AND AT "OR5" 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 20. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

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

| NAME                   | IN1 | MD1 | NJ1 | NJ3 | OH2 | ON1 | RI1 | UB1 | MEAN |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| EGMONT                 | 7.0 | 8.8 | 8.0 | 7.2 | 6.2 | 4.3 | 6.0 | 6.8 | 6.8  |
| TRACENTA               | 7.1 | 8.8 | 7.5 | 6.8 | 5.8 | 4.0 | 6.0 | 6.9 | 6.6  |
| BARDOT                 | 7.1 | 8.8 | 7.8 | 6.7 | 6.2 | 4.0 | 4.8 | 6.9 | 6.5  |
| ALLURE                 | 6.9 | 8.3 | 7.5 | 6.3 | 5.9 | 5.0 | 5.5 | 4.3 | 6.2  |
| BR 1518                | 6.7 | 8.5 | 7.3 | 6.3 | 5.4 | 4.7 | 5.3 | 5.3 | 6.2  |
| PROVIDENCE             | 5.8 | 8.2 | 5.3 | 5.0 | 5.8 | 3.0 | 5.0 | 6.3 | 5.5  |
| NATIONAL               | 6.4 | 8.2 | 4.8 | 5.0 | 5.8 | 3.3 | 4.7 | 5.4 | 5.4  |
| REGENT (NORMARC 101)   | 5.8 | 8.3 | 4.7 | 5.5 | 5.7 | 3.3 | 3.7 | 6.0 | 5.4  |
| PENNEAGLE              | 5.4 | 8.2 | 5.2 | 5.5 | 5.9 | 3.3 | 4.2 | 5.1 | 5.3  |
| LOPEZ (W/PB 89-D-15)   | 6.1 | 8.3 | 3.8 | 5.0 | 5.6 | 3.0 | 4.2 | 4.3 | 5.0  |
| PENNCROSS              | 4.9 | 8.5 | 4.8 | 5.3 | 5.8 | 3.0 | 2.8 | 4.9 | 5.0  |
| COBRA                  | 5.7 | 8.2 | 4.3 | 4.8 | 5.3 | 3.3 | 4.0 | 3.8 | 4.9  |
| VIPER (88.CBL)         | .   | 7.8 | 4.3 | .   | .   | 3.0 | 3.5 | 5.4 | 4.8  |
| 88.CBE                 | .   | .   | 4.5 | .   | .   | .   | 4.3 | 4.9 | 4.6  |
| PUTTER                 | 4.9 | 7.2 | 4.3 | 4.7 | 5.6 | 3.0 | 3.5 | 3.2 | 4.5  |
| PRO/CUP (FORBES 89-12) | 4.1 | 7.7 | 3.2 | 4.7 | 5.7 | 3.0 | 3.8 | 4.1 | 4.5  |
| CARMEN                 | 4.7 | 7.8 | 2.3 | 4.8 | 5.7 | 3.0 | 4.0 | 3.7 | 4.5  |
| TAMU 88-1              | 3.6 | 8.2 | 2.5 | .   | 5.3 | 3.7 | 3.0 | 2.3 | 4.1  |
| SR 1020                | 4.1 | 7.2 | 3.0 | 4.2 | 5.2 | 3.0 | 2.3 | 3.6 | 4.1  |
| EMERALD                | 4.1 | 7.7 | 2.2 | 4.3 | 4.8 | 3.3 | 2.5 | 1.7 | 3.8  |
| LSD VALUE              | 1.3 | 1.2 | 1.2 | 1.2 | 1.6 | 1.0 | 1.9 | 1.5 | 0.6  |

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

TABLE 21. RED THREAD RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

| NAME                   | RI1 |
|------------------------|-----|
| BARDOT                 | 8.0 |
| CARMEN                 | 8.0 |
| EMERALD                | 8.0 |
| LOPEZ (WVPB 89-D-15)   | 8.0 |
| PENNEAGLE              | 8.0 |
| PRO/CUP (FORBES 89-12) | 8.0 |
| PROVIDENCE             | 8.0 |
| PUTTER                 | 8.0 |
| TAMU 88-1              | 8.0 |
| VIPER (88.CBL)         | 8.0 |
| 88.CBE                 | 7.7 |
| COBRA                  | 7.7 |
| NATIONAL               | 7.7 |
| PENNCROSS              | 7.7 |
| REGENT (NORMARC 101)   | 7.7 |
| SR 1020                | 7.7 |
| EGMONT                 | 7.3 |
| TRACENTA               | 7.0 |
| ALLURE                 | 6.7 |
| BR 1518                | 6.7 |
| LSD VALUE              | 0.6 |

1/ RED THREAD 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 22. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE  
1990-1993 DATA

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

| NAME                   | IL1 | IN1 | MD1 | NJ1 | NJ3 | OH2 | UB1 | VA5 | MEAN |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| PROVIDENCE             | 9.0 | 9.0 | 8.7 | 7.2 | 6.8 | 9.0 | 5.0 | 9.0 | 8.0  |
| PRO/CUP (FORBES 89-12) | 9.0 | 9.0 | 8.7 | 7.2 | 6.7 | 9.0 | 5.0 | 9.0 | 7.9  |
| LOPEZ (WFPB 89-D-15)   | 8.5 | 8.7 | 8.7 | 6.7 | 7.0 | 9.0 | 5.0 | 8.8 | 7.8  |
| PENNEAGLE              | 9.0 | 9.0 | 8.7 | 6.2 | 6.3 | 9.0 | 4.3 | 8.8 | 7.7  |
| TAMU 88-1              | .   | 8.7 | 8.5 | 6.7 | .   | 9.0 | 4.0 | 8.8 | 7.6  |
| PUTTER                 | 8.7 | 9.0 | 7.8 | 6.8 | 6.7 | 9.0 | 4.3 | 8.3 | 7.6  |
| REGENT (NORMARC 101)   | 8.7 | 8.3 | 9.0 | 7.2 | 5.7 | 9.0 | 3.7 | 9.0 | 7.6  |
| NATIONAL               | 8.8 | 9.0 | 8.5 | 5.8 | 6.5 | 8.7 | 4.0 | 9.0 | 7.5  |
| COBRA                  | 8.5 | 9.0 | 8.5 | 7.2 | 5.8 | 9.0 | 3.3 | 8.8 | 7.5  |
| PENNCROSS              | 9.0 | 9.0 | 7.8 | 5.5 | 7.0 | 9.0 | 3.7 | 9.0 | 7.5  |
| EMERALD                | 6.5 | 9.0 | 8.7 | 6.5 | 5.8 | 9.0 | 5.7 | 8.7 | 7.5  |
| CARMEN                 | 8.7 | 9.0 | 8.3 | 5.7 | 6.2 | 9.0 | 3.7 | 8.7 | 7.4  |
| VIPER (88.CBL)         | 8.5 | .   | 8.5 | 6.8 | .   | .   | 4.0 | 8.5 | 7.3  |
| SR 1020                | 7.3 | 7.7 | 8.7 | 6.3 | 6.3 | 9.0 | 2.7 | 8.8 | 7.1  |
| 88.CBE                 | 8.7 | .   | .   | 6.8 | .   | .   | 3.3 | 8.7 | 6.9  |
| TRACENTA               | 5.7 | 2.7 | 7.0 | 3.7 | 2.8 | 8.7 | 5.0 | 8.0 | 5.4  |
| BARDOT                 | 4.0 | 2.7 | 7.0 | 3.3 | 3.7 | 9.0 | 4.3 | 7.8 | 5.2  |
| EGMONT                 | 4.8 | 2.3 | 6.3 | 2.5 | 3.3 | 8.3 | 5.7 | 8.2 | 5.2  |
| BR 1518                | 7.2 | 3.0 | 4.7 | 4.2 | 2.7 | 8.7 | 3.3 | 7.2 | 5.1  |
| ALLURE                 | .   | 2.3 | 6.7 | 3.8 | 2.3 | 9.0 | 2.7 | 8.8 | 5.1  |
| LSD VALUE              | 1.6 | 1.3 | 1.3 | 1.7 | 1.3 | 0.4 | 1.7 | 1.1 | 0.5  |

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

TABLE 23. TAKE-ALL PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

TAKE-ALL PATCH RATINGS 1-9; 9=NO DISEASE 2/

| NAME                   | UB1 |
|------------------------|-----|
| TRACENTA               | 8.7 |
| ALLURE                 | 8.3 |
| BARDOT                 | 8.3 |
| EGMONT                 | 8.3 |
| PENNEAGLE              | 7.3 |
| PROVIDENCE             | 7.3 |
| REGENT (NORMARC 101)   | 7.0 |
| CARMEN                 | 6.7 |
| COBRA                  | 6.7 |
| PRO/CUP (FORBES 89-12) | 6.7 |
| LOPEZ (WVPB 89-D-15)   | 6.3 |
| PUTTER                 | 6.0 |
| 88.CBE                 | 5.7 |
| BR 1518                | 5.7 |
| NATIONAL               | 5.0 |
| PENNCROSS              | 5.0 |
| TAMU 88-1              | 5.0 |
| EMERALD                | 4.7 |
| SR 1020                | 4.7 |
| VIPER (88.CBL)         | 4.7 |
| LSD VALUE              | 3.7 |

1/ TAKE-ALL PATCH RATED IN 1990 ONLY.

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



TABLE 24. CHINCH BUG RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

CHINCH BUG RATINGS 1-9; 9=NO DAMAGE 2/

| NAME                   | MD1 | RI1 | MEAN |
|------------------------|-----|-----|------|
| EGMONT                 | 7.7 | 9.0 | 8.3  |
| BR 1518                | 7.3 | 9.0 | 8.2  |
| TRACENTA               | 7.3 | 9.0 | 8.2  |
| BARDOT                 | 7.7 | 8.3 | 8.0  |
| ALLURE                 | 8.0 | 7.7 | 7.8  |
| PUTTER                 | 7.7 | 7.0 | 7.3  |
| PENNEAGLE              | 7.0 | 7.0 | 7.0  |
| SR 1020                | 7.0 | 6.7 | 6.8  |
| NATIONAL               | 7.3 | 6.3 | 6.8  |
| PROVIDENCE             | 7.0 | 5.7 | 6.3  |
| REGENT (NORMARC 101)   | 6.7 | 6.0 | 6.3  |
| EMERALD                | 8.7 | 4.0 | 6.3  |
| TAMU 88-1              | 6.3 | 6.0 | 6.2  |
| VIPER (88.CBL)         | 7.0 | 4.7 | 5.8  |
| COBRA                  | 7.0 | 3.7 | 5.3  |
| PENNCROSS              | 5.3 | 5.0 | 5.2  |
| CARMEN                 | 5.3 | 4.7 | 5.0  |
| PRO/CUP (FORBES 89-12) | 6.7 | 3.3 | 5.0  |
| 88.CBE                 | .   | 4.7 | 4.7  |
| LOPEZ (WBPB 89-D-15)   | 6.7 | 2.7 | 4.7  |
| LSD VALUE              | 1.7 | 2.2 | 1.4  |

1/ CHINCH BUG 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 25. UNIFORMITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

UNIFORMITY RATINGS 1-9; 9=BEST 2/

| NAME                   | OH2 |
|------------------------|-----|
| SR 1020                | 7.7 |
| COBRA                  | 6.7 |
| PENNEAGLE              | 6.7 |
| REGENT (NORMARC 101)   | 6.7 |
| TAMU 88-1              | 6.7 |
| CARMEN                 | 6.3 |
| EMERALD                | 6.3 |
| LOPEZ (WVPB 89-D-15)   | 6.3 |
| PRO/CUP (FORBES 89-12) | 6.3 |
| PUTTER                 | 6.3 |
| EGMONT                 | 6.0 |
| PENNCROSS              | 6.0 |
| TRACENTA               | 6.0 |
| BARDOT                 | 5.7 |
| ALLURE                 | 5.3 |
| NATIONAL               | 5.0 |
| PROVIDENCE             | 5.0 |
| BR 1518                | 4.3 |
| LSD VALUE              | 1.9 |

1/ UNIFORMITY RATED IN 1990 ONLY.

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

TABLE 26. SCALPING RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

SCALPING RATINGS 1-9; 9=NONE 2/

| NAME                   | OR3 |
|------------------------|-----|
| CARMEN                 | 8.0 |
| PENNCROSS              | 8.0 |
| PRO/CUP (FORBES 89-12) | 8.0 |
| PROVIDENCE             | 8.0 |
| LOPEZ (WVPB 89-D-15)   | 7.7 |
| PENNEAGLE              | 7.7 |
| REGENT (NORMARC 101)   | 7.7 |
| SR 1020                | 7.7 |
| VIPER (88.CBL)         | 7.7 |
| 88.CBE                 | 7.3 |
| COBRA                  | 7.3 |
| EGMONT                 | 7.3 |
| EMERALD                | 7.3 |
| TAMU 88-1              | 7.3 |
| BARDOT                 | 7.0 |
| PUTTER                 | 7.0 |
| TRACENTA               | 7.0 |
| BR 1518                | 6.7 |
| ALLURE                 | 6.3 |
| NATIONAL               | 6.3 |
| LSD VALUE              | 1.2 |

1/ SCALPING RATED IN 1990 ONLY.

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

TABLE 27. HERBICIDE INJURY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

HERBICIDE INJURY RATINGS 1-9; 9=NO INJURY 2/

| NAME                   | WA3 |
|------------------------|-----|
| EMERALD                | 8.0 |
| PUTTER                 | 8.0 |
| EGMONT                 | 7.7 |
| PRO/CUP (FORBES 89-12) | 7.7 |
| PROVIDENCE             | 7.7 |
| BARDOT                 | 7.3 |
| VIPER (88.CBL)         | 7.3 |
| ALLURE                 | 7.0 |
| BR 1518                | 7.0 |
| CARMEN                 | 6.7 |
| COBRA                  | 6.7 |
| LOPEZ (WVPB 89-D-15)   | 6.7 |
| PENNEAGLE              | 6.7 |
| REGENT (NORMARC 101)   | 6.7 |
| 88.CBE                 | 6.3 |
| SR 1020                | 6.3 |
| TAMU 88-1              | 6.3 |
| NATIONAL               | 5.3 |
| PENNCROSS              | 4.7 |
| TRACENTA               | 4.7 |
| LSD VALUE              | 4.2 |

1/ HERBICIDE INJURY RATED IN 1993 ONLY.

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

TABLE 28. POA ANNUA RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

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

| NAME                   | OH2 |
|------------------------|-----|
| PENNEAGLE              | 6.7 |
| EMERALD                | 6.3 |
| TAMU 88-1              | 6.3 |
| PENNCROSS              | 6.0 |
| PROVIDENCE             | 6.0 |
| PUTTER                 | 6.0 |
| REGENT (NORMARC 101)   | 6.0 |
| PRO/CUP (FORBES 89-12) | 5.7 |
| ALLURE                 | 5.3 |
| COBRA                  | 5.3 |
| EGMONT                 | 5.3 |
| NATIONAL               | 5.3 |
| SR 1020                | 5.3 |
| CARMEN                 | 5.0 |
| LOPEZ (WVPB 89-D-15)   | 5.0 |
| TRACENTA               | 5.0 |
| BARDOT                 | 4.7 |
| BR 1518                | 4.3 |
| LSD VALUE              | 1.5 |

1/ POA ANNUA 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 29. PERCENT POA ANNUA (JANUARY) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  |
|------------------------|------|
| EMERALD                | 26.3 |
| NATIONAL               | 26.3 |
| BARDOT                 | 22.7 |
| SR 1020                | 22.0 |
| TAMU 88-1              | 22.0 |
| CARMEN                 | 21.3 |
| LOPEZ (WVPB 89-D-15)   | 21.3 |
| ALLURE                 | 20.3 |
| PRO/CUP (FORBES 89-12) | 20.0 |
| EGMONT                 | 18.7 |
| ER 1518                | 14.3 |
| TRACENTA               | 13.7 |
| PENNCROSS              | 10.7 |
| PROVIDENCE             | 10.3 |
| COBRA                  | 10.0 |
| BUTTER                 | 7.0  |
| REGENT (NORMARC 101)   | 6.3  |
| PENNEAGLE              | 5.0  |
| LSD VALUE              | 16.3 |

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 30. PERCENT POA ANNUA (FEBRUARY) RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| BR 1518                | 33.7 | 30.0 | 31.8 |
| 88.CBE                 | .    | 31.7 | 31.7 |
| VIPER (88.CBL)         | .    | 31.7 | 31.7 |
| LOPEZ (WVPB 89-D-15)   | 19.7 | 43.3 | 31.5 |
| SR 1020                | 22.7 | 38.3 | 30.5 |
| COBRA                  | 12.0 | 45.0 | 28.5 |
| PROVIDENCE             | 14.0 | 41.7 | 27.8 |
| CARMEN                 | 22.0 | 31.7 | 26.8 |
| PRO/CUP (FORBES 89-12) | 20.0 | 28.3 | 24.2 |
| TRACENTA               | 17.0 | 28.3 | 22.7 |
| TAMU 88-1              | 11.3 | 33.3 | 22.3 |
| ALLURE                 | 19.0 | 25.0 | 22.0 |
| PENNEAGLE              | 2.3  | 35.0 | 18.7 |
| EMERALD                | 17.7 | 16.7 | 17.2 |
| EGMONT                 | 15.3 | 18.3 | 16.8 |
| BARDOT                 | 11.0 | 21.7 | 16.3 |
| NATIONAL               | 4.0  | 28.3 | 16.2 |
| REGENT (NORMARC 101)   | 12.0 | 15.0 | 13.5 |
| PENNCROSS              | 12.0 | 11.7 | 11.8 |
| PUTTER                 | 2.3  | 13.3 | 7.8  |
| LSD VALUE              | 22.9 | 30.9 | 20.3 |

1/ PERCENT POA ANNUA (FEBRUARY) RATED AT "CA1" IN 1993 AND AT "VA5" 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 31. PERCENT POA ANNUA (APRIL) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| SR 1020                | 32.3 | 50.0 | 41.2 |
| VIPER (88.CBL)         | .    | 40.8 | 40.8 |
| BR 1518                | 25.3 | 45.0 | 35.2 |
| LOPEZ (WVPB 89-D-15)   | 18.3 | 51.7 | 35.0 |
| COBRA                  | 13.7 | 55.8 | 34.8 |
| 88.CBE                 | .    | 34.2 | 34.2 |
| NATIONAL               | 21.7 | 45.8 | 33.8 |
| PRO/CUP (FORBES 89-12) | 24.7 | 40.0 | 32.3 |
| CARMEN                 | 23.7 | 39.2 | 31.4 |
| TAMU 88-1              | 8.3  | 51.7 | 30.0 |
| EMERALD                | 15.0 | 39.2 | 27.1 |
| PROVIDENCE             | 12.3 | 41.7 | 27.0 |
| EGMONT                 | 13.3 | 40.0 | 26.7 |
| ALLURE                 | 19.7 | 32.5 | 26.1 |
| PENNEAGLE              | 5.7  | 43.3 | 24.5 |
| TRACENTA               | 13.7 | 30.8 | 22.3 |
| BARDOT                 | 12.3 | 30.8 | 21.6 |
| PENNCROSS              | 13.0 | 29.2 | 21.1 |
| REGENT (NORMARC 101)   | 10.3 | 26.7 | 18.5 |
| PUTTER                 | 6.3  | 24.2 | 15.3 |
| LSD VALUE              | 14.6 | 23.1 | 17.2 |

1/ PERCENT POA ANNUA (APRIL) RATED AT "CA1" IN 1993 AND AT "VA5" IN 1991 & 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 32. PERCENT POA ANNUA (MAY) RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| SR 1020                | 15.5 | 30.0 | 22.8 |
| LOPEZ (WVPB 89-D-15)   | 18.2 | 26.0 | 22.1 |
| NATIONAL               | 20.7 | 20.8 | 20.8 |
| VIPER (88.CBL)         | .    | 20.0 | 20.0 |
| TRACENTA               | 17.8 | 20.2 | 19.0 |
| ALLURE                 | 10.7 | 24.8 | 17.7 |
| COBRA                  | 8.8  | 24.7 | 16.8 |
| PRO/CUP (FORBES 89-12) | 12.0 | 20.4 | 16.2 |
| 88.CBE                 | .    | 16.0 | 16.0 |
| TAMU 88-1              | 10.5 | 21.4 | 16.0 |
| PENNEAGLE              | 2.5  | 28.5 | 15.5 |
| BR 1518                | 13.8 | 16.7 | 15.3 |
| EGMONT                 | 12.2 | 17.9 | 15.0 |
| PROVIDENCE             | 9.7  | 20.0 | 14.8 |
| BARDOT                 | 11.2 | 17.0 | 14.1 |
| EMERALD                | 14.3 | 12.7 | 13.5 |
| CARMEN                 | 12.0 | 14.6 | 13.3 |
| PUTTER                 | 5.0  | 17.3 | 11.2 |
| REGENT (NORMARC 101)   | 6.3  | 14.2 | 10.3 |
| PENNCROSS              | 8.2  | 8.8  | 8.5  |
| LSD VALUE              | 9.7  | 12.2 | 9.2  |

1/ PERCENT POA ANNUA (MAY) RATED AT "CA1" IN 1992 & 1993 AND AT "VA5" IN 1991-93.

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 (JUNE) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

| NAME                   | PERCENT POA ANNUA: LOCATIONS 2/ |      |      |
|------------------------|---------------------------------|------|------|
|                        | CA1                             | VA5  | MEAN |
| VIPER (88.CBL)         | .                               | 33.3 | 33.3 |
| 88.CBE                 | .                               | 28.3 | 28.3 |
| LOPEZ (WVPB 89-D-15)   | 5.0                             | 50.0 | 27.5 |
| BR 1518                | 5.3                             | 46.7 | 26.0 |
| COBRA                  | 1.7                             | 45.0 | 23.3 |
| NATIONAL               | 10.0                            | 35.0 | 22.5 |
| ALLURE                 | 3.3                             | 40.0 | 21.7 |
| SR 1020                | 1.7                             | 40.0 | 20.8 |
| TAMU 88-1              | 5.0                             | 33.3 | 19.2 |
| PENNEAGLE              | 1.7                             | 35.0 | 18.3 |
| CARMEN                 | 3.3                             | 31.7 | 17.5 |
| TRACENTA               | 5.0                             | 30.0 | 17.5 |
| PRO/CUP (FORBES 89-12) | 5.0                             | 26.7 | 15.8 |
| PROVIDENCE             | 3.3                             | 28.3 | 15.8 |
| EGMONT                 | 6.7                             | 23.3 | 15.0 |
| EMERALD                | 5.0                             | 25.0 | 15.0 |
| BARDOT                 | 5.0                             | 21.7 | 13.3 |
| REGENT (NORMARC 101)   | 5.0                             | 21.7 | 13.3 |
| PENNCROSS              | 1.7                             | 20.0 | 10.8 |
| PUTTER                 | 1.7                             | 18.3 | 10.0 |
| LSD VALUE              | 6.3                             | 30.8 | 16.9 |

1/ PERCENT POA ANNUA (JUNE) RATED AT "CA1" IN 1992 AND AT "VA5" 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 34. PERCENT POA ANNUA (JULY) RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| BR 1518                | 43.5 | 39.2 | 41.3 |
| NATIONAL               | 33.5 | 34.2 | 33.8 |
| VIPER (88.CBL)         | .    | 33.3 | 33.3 |
| SR 1020                | 22.5 | 40.8 | 31.7 |
| EGMONT                 | 38.5 | 23.3 | 30.9 |
| LOPEZ (WVPB 89-D-15)   | 19.7 | 37.5 | 28.6 |
| BARDOT                 | 39.3 | 16.7 | 28.0 |
| TRACENTA               | 28.5 | 26.7 | 27.6 |
| EMERALD                | 37.2 | 15.0 | 26.1 |
| COBRA                  | 13.5 | 38.3 | 25.9 |
| CARMEN                 | 26.3 | 25.0 | 25.7 |
| PRO/CUP (FORBES 89-12) | 24.5 | 24.2 | 24.3 |
| 88.CBE                 | .    | 22.5 | 22.5 |
| ALLURE                 | 17.2 | 27.5 | 22.3 |
| REGENT (NORMARC 101)   | 21.8 | 19.2 | 20.5 |
| PENNEAGLE              | 4.5  | 35.8 | 20.2 |
| PROVIDENCE             | 21.0 | 16.7 | 18.8 |
| TAMU 88-1              | 9.2  | 25.8 | 17.5 |
| PUTTER                 | 5.7  | 16.7 | 11.2 |
| PENNCROSS              | 8.2  | 13.3 | 10.8 |
| LSD VALUE              | 23.7 | 18.2 | 15.6 |

1/ PERCENT POA ANNUA (JULY) RATED AT "CA1" IN 1992 & 1993 AND AT "VA5" IN 1990 & 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 35. PERCENT POA ANNUA (AUGUST) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| VIPER (88.CBL)         | .    | 35.0 | 35.0 |
| SR 1020                | 11.7 | 48.3 | 30.0 |
| 88.CBE                 | .    | 25.0 | 25.0 |
| BR 1518                | 15.0 | 35.0 | 25.0 |
| LOPEZ (WVPB 89-D-15)   | 6.7  | 43.3 | 25.0 |
| COBRA                  | 4.3  | 43.3 | 23.8 |
| NATIONAL               | 11.7 | 35.0 | 23.3 |
| CARMEN                 | 15.0 | 26.7 | 20.8 |
| PENNEAGLE              | 1.0  | 38.3 | 19.7 |
| ALLURE                 | 11.7 | 26.7 | 19.2 |
| TRACENTA               | 18.3 | 20.0 | 19.2 |
| EGMONT                 | 13.3 | 23.3 | 18.3 |
| EMERALD                | 23.3 | 11.7 | 17.5 |
| BARDOT                 | 20.0 | 13.3 | 16.7 |
| PRO/CUP (FORBES 89-12) | 8.3  | 20.0 | 14.2 |
| TAMU 88-1              | 5.0  | 23.3 | 14.2 |
| PROVIDENCE             | 5.3  | 18.3 | 11.8 |
| REGENT (NORMARC 101)   | 5.0  | 16.7 | 10.8 |
| PUTTER                 | 3.0  | 18.3 | 10.7 |
| PENNCROSS              | 5.3  | 6.7  | 6.0  |
| LSD VALUE              | 10.0 | 29.9 | 16.9 |

1/ PERCENT POA ANNUA (AUGUST) RATED AT "CA1" IN 1992 AND AT "VA5" 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 36. PERCENT POA ANNUA (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE 1/  
1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  | VA5  | MEAN |
|------------------------|------|------|------|
| ALLURE                 | 9.0  | 55.0 | 32.0 |
| BR 1518                | 9.0  | 50.0 | 29.5 |
| EGMONT                 | 8.0  | 31.7 | 19.8 |
| BARDOT                 | 9.3  | 28.3 | 18.8 |
| SR 1020                | 9.3  | 23.3 | 16.3 |
| EMERALD                | 21.0 | 11.0 | 16.0 |
| TRACENTA               | 6.7  | 24.3 | 15.5 |
| LOPEZ (WVPB 89-D-15)   | 4.7  | 25.0 | 14.8 |
| COBRA                  | 2.7  | 26.7 | 14.7 |
| NATIONAL               | 9.3  | 16.7 | 13.0 |
| CARMEN                 | 8.7  | 16.3 | 12.5 |
| PRO/CUP (FORBES 89-12) | 9.3  | 14.0 | 11.7 |
| TAMU 88-1              | 6.3  | 15.0 | 10.7 |
| 88.CBE                 | .    | 8.7  | 8.7  |
| PENNEAGLE              | 1.7  | 15.3 | 8.5  |
| VIPER (88.CBL)         | .    | 8.3  | 8.3  |
| PROVIDENCE             | 5.3  | 7.3  | 6.3  |
| REGENT (NORMARC 101)   | 5.7  | 6.0  | 5.8  |
| PUTTER                 | 1.7  | 7.7  | 4.7  |
| PENNCROSS              | 3.0  | 3.0  | 3.0  |
| LSD VALUE              | 8.0  | 21.5 | 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 37. PERCENT POA ANNUA (OCTOBER) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/ 1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | CA1  |
|------------------------|------|
| BR 1518                | 93.3 |
| ALLURE                 | 91.3 |
| TRACENTA               | 86.7 |
| PRO/CUP (FORBES 89-12) | 85.3 |
| BARDOT                 | 80.3 |
| FUTTER                 | 66.0 |
| NATIONAL               | 65.7 |
| COBRA                  | 65.0 |
| LOPEZ (WVPB 89-D-15)   | 61.7 |
| EGMONT                 | 61.0 |
| EMERALD                | 57.0 |
| PENNCROSS              | 53.7 |
| PENNEAGLE              | 52.0 |
| TAMU 88-1              | 49.0 |
| SR 1020                | 46.0 |
| CARMEN                 | 45.7 |
| PROVIDENCE             | 43.3 |
| REGENT (NORMARC 101)   | 33.3 |
| LSD VALUE              | 31.0 |

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

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

TABLE 38. PERCENT POA ANNUA (DECEMBER) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/ 1990-1993 DATA

PERCENT POA ANNUA: LOCATIONS 2/

| NAME                   | VA5  |
|------------------------|------|
| SR 1020                | 48.3 |
| COBRA                  | 40.0 |
| LOPEZ (WVPB 89-D-15)   | 40.0 |
| ER 1518                | 36.7 |
| TAMU 88-1              | 33.3 |
| PROVIDENCE             | 31.7 |
| NATIONAL               | 30.0 |
| PRO/CUP (FORBES 89-12) | 30.0 |
| VIPER (88.CBL)         | 30.0 |
| 88.CBE                 | 28.3 |
| ALLURE                 | 28.3 |
| PENNEAGLE              | 28.3 |
| BARDOT                 | 25.0 |
| CARMEN                 | 25.0 |
| EMERALD                | 25.0 |
| EGMONT                 | 20.0 |
| REGENT (NORMARC 101)   | 20.0 |
| FUTTER                 | 16.7 |
| TRACENTA               | 16.7 |
| PENNCROSS              | 11.7 |
| LSD VALUE              | 23.0 |

1/ PERCENT POA ANNUA (DECEMBER) 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 39. PERCENT POA ANNUA (MEAN) RATINGS OF BENTGRASS CULTIVARS GROWN ON A FAIRWAY OR TEE 1/ 1990-1993 DATA

| NAME                   | PERCENT POA ANNUA: LOCATIONS 2/ |      |      | MEAN |
|------------------------|---------------------------------|------|------|------|
|                        | CA1                             | OH2  | VA5  |      |
| BR 1518                | 26.8                            | 51.7 | 30.9 | 36.4 |
| ALLURE                 | 19.9                            | 41.0 | 30.4 | 30.4 |
| EGMONT                 | 20.7                            | 44.3 | 23.3 | 29.5 |
| EMERALD                | 23.7                            | 46.7 | 16.8 | 29.0 |
| SR 1020                | 19.1                            | 24.3 | 38.8 | 27.4 |
| VIPER (88.CBL)         | .                               | .    | 27.3 | 27.3 |
| BARDOT                 | 22.9                            | 36.7 | 22.1 | 27.2 |
| TRACENTA               | 22.1                            | 34.3 | 25.0 | 27.2 |
| NATIONAL               | 22.4                            | 32.7 | 26.3 | 27.1 |
| LOPEZ (WVPB 89-D-15)   | 18.2                            | 26.0 | 32.3 | 25.5 |
| COBRA                  | 13.1                            | 24.3 | 31.5 | 23.0 |
| CARMEN                 | 18.7                            | 28.7 | 20.6 | 22.7 |
| PRO/CUP (FORBES 89-12) | 21.1                            | 17.7 | 27.1 | 21.9 |
| TAMU 88-1              | 12.6                            | 23.3 | 25.8 | 20.6 |
| 88.CBE                 | .                               | .    | 20.5 | 20.5 |
| PROVIDENCE             | 13.3                            | 23.7 | 23.7 | 20.2 |
| PENNEAGLE              | 7.1                             | 17.0 | 32.4 | 18.8 |
| REGENT (NORMARC 101)   | 11.6                            | 21.0 | 16.1 | 16.2 |
| PUTTER                 | 9.3                             | 20.3 | 18.8 | 16.1 |
| PENNCROSS              | 11.3                            | 22.7 | 11.2 | 15.0 |
| LSD VALUE              | 14.4                            | 15.1 | 11.1 | 8.3  |

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).