

## **NATIONAL TURFGRASS EVALUATION PROGRAM**

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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## **A Guide to NTEP Turfgrass Ratings**

### **Introduction**

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

### **General Considerations**

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

### **Turfgrass Quality**

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

### **Other Ratings**

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

# **2014 NATIONAL BENTGRASS TEST (Putting Green)**

## **LOCATIONS SUBMITTING DATA FOR 2016**

| <b>State</b>   | <b>Location</b>                      | <b>Code</b> |
|----------------|--------------------------------------|-------------|
| California     | San Francisco (California Golf Club) | CA5         |
| California     | Los Angeles (Los Angeles C.C.)       | CA6         |
| Georgia        | Athens                               | GA1         |
| Illinois       | Glenview (North Shore C.C.)          | IL4         |
| Indiana        | West Lafayette                       | IN1         |
| Iowa           | Ames                                 | IA1         |
| Kansas         | Manhattan                            | KS1         |
| Kentucky       | Lexington                            | KY1         |
| Massachusetts  | Amherst (Traffic Study)              | MA1         |
| Michigan       | East Lansing                         | MI1         |
| Minnesota      | St. Paul                             | MN1         |
| Missouri       | Columbia                             | MO1         |
| New Jersey     | North Brunswick                      | NJ1         |
| North Carolina | Raleigh                              | NC1         |
| Oklahoma       | Stillwater                           | OK1         |
| Utah           | Logan                                | UT1         |
| Utah           | Logan (Drought)                      | UT2         |
| Virginia       | Blacksburg                           | VA1         |

## 2014 NATIONAL BENTGRASS TEST (Putting Green)

### Entries and Sponsors

| Entry No | Name                | Species  | Sponsor                                   |
|----------|---------------------|----------|-------------------------------------------|
| *1       | Luminary            | Creeping | Standard                                  |
| *2       | 777 (DLFPS-AP/3054) | Creeping | DLF Pickseed USA                          |
| 3        | DLFPS-AP/3018       | Creeping | DLF Pickseed USA                          |
| 4        | DLFPS-AP/3056       | Creeping | DLF Pickseed USA                          |
| 5        | DLFPS-AP/3058       | Creeping | DLF Pickseed USA                          |
| 6        | DLFPS-AP/3059       | Creeping | DLF Pickseed USA                          |
| *7       | Pure Select         | Creeping | Tee-2-Green Corp.                         |
| *8       | Penn A-1            | Creeping | Standard                                  |
| *9       | Penncross           | Creeping | Standard                                  |
| *10      | L-93XD              | Creeping | Jacklin Seed by Simplot®                  |
| *11      | Armor               | Creeping | Jacklin Seed by Simplot®                  |
| *12      | Kingdom             | Creeping | Jacklin Seed by Simplot®                  |
| *13      | Nightlife           | Creeping | Jacklin Seed by Simplot®                  |
| *14      | V-8                 | Creeping | Standard                                  |
| 15       | GDE                 | Creeping | Semillas Fito                             |
| *16      | Piranha (DC-1)      | Creeping | Mountain View Seeds & Toyo Green Co. Ltd. |
| 17       | PST-ROPS            | Creeping | Pure Seed Testing, Inc                    |
| *18      | Shark               | Creeping | Mountain View Seeds                       |
| *19      | Barracuda           | Creeping | Mountain View Seeds                       |
| *20      | Declaration         | Creeping | Standard                                  |

\* Commercially Available in the USA in 2017.

TABLE A. 2016 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2014 NATIONAL BENTGRASS (GREEN) TEST

| LOCATION | SOIL TEXTURE    | SOIL PH | SOIL PHOSPHOROUS (LBS/ACRE) | SOIL POTASSIUM (LBS/ACRE) | NITROGEN (LBS/1000 SQ FT) | SUN OR SHADE | MOWING HEIGHT (IN) | IRRIGATION PRACTICED      |
|----------|-----------------|---------|-----------------------------|---------------------------|---------------------------|--------------|--------------------|---------------------------|
| CA5      | SAND            | 6.6-7.0 | 0-60                        | 151-240                   | 0.0-1.0                   | FULL SUN     | 0.0-0.5            | ONLY DURING SEVERE STRESS |
| CA6      | SAND            | 7.1-7.5 | 0-60                        | 151-240                   | 2.1-3.0                   | LIGHT SHADE  | 0.0-0.5            | TO PREVENT STRESS         |
| GA3      | LOAMY SAND      | -       | -                           | -                         | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| IA1      | SANDY CLAY LOAM | 7.1-7.5 | 0-60                        | 0-150                     | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| IL4      | SAND            | -       | 61-150                      | 0-150                     | -                         | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| IN1      | SAND            | 7.6-8.5 | 61-150                      | 151-240                   | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT DORMANCY       |
| KS1      | -               | -       | -                           | -                         | -                         | -            | -                  | -                         |
| KY1      | SAND            | 7.6-8.5 | 61-150                      | 0-150                     | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| MA1      | SAND            | 5.6-6.0 | 0-60                        | 241-375                   | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| MI1      | -               | -       | -                           | -                         | -                         | -            | -                  | -                         |
| MN1      | SAND            | 7.1-7.5 | 0-60                        | 0-150                     | 2.1-3.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| MO1      | -               | -       | -                           | -                         | -                         | -            | -                  | -                         |
| NC1      | SILTY CLAY LOAM | 6.1-6.5 | 61-150                      | 0-150                     | 5.1-6.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| NJ1      | SAND            | 6.1-6.5 | 0-60                        | 151-240                   | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| OK1      | SAND            | 7.1-7.5 | 61-150                      | 241-375                   | 3.1-4.0                   | FULL SUN     | 0.0-0.5            | TO PREVENT STRESS         |
| UT1      | -               | -       | -                           | -                         | -                         | -            | -                  | -                         |
| UT2      | -               | -       | -                           | -                         | -                         | -            | -                  | -                         |
| VA1      | SILTY CLAY LOAM | 6.1-6.5 | 61-150                      | 151-240                   | 3.1-4.0                   | FULL SUN     | 0.6-1.0            | TO PREVENT DORMANCY       |

| 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 | SPRING<br>GREENUP | LEAF<br>TEXTURE |
|----------|------------------------------|-------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|---------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|------------------|-------------------|-----------------|
| CA5      | X                            | X                             | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             | X                |                   |                 |
| CA6      | X                            | X                             | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             | X                |                   |                 |
| GA3      |                              |                               |                            |                            |                          | X                         | X                         | X                           | X                              | X                            | X                             | X                             | X                |                   |                 |
| IA1      |                              |                               |                            |                            | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                |                   |                 |
| IL4      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                |                   |                 |
| IN1      |                              |                               |                            |                            | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                |                   | X               |
| KS1      |                              |                               |                            |                            | X                        | X                         | X                         | X                           | X                              |                              |                               |                               | X                |                   |                 |
| KY1      |                              |                               | X                          | X                          | X                        | X                         | X                         | X                           | X                              |                              |                               |                               |                  |                   |                 |
| MA1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             |                  | X                 |                 |
| MI1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                | X                 |                 |
| MN1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                | X                 |                 |
| MO1      |                              |                               | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               |                  |                   |                 |
| NC1      | X                            | X                             | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             |                               | X                | X                 | X               |
| NJ1      |                              |                               | X                          | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                | X                 | X               |
| OK1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            | X                             | X                             |                  |                   |                 |
| UT1      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                | X                 |                 |
| UT2      |                              |                               |                            | X                          | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               |                  | X                 |                 |
| VA1      |                              |                               | X                          |                            | X                        | X                         | X                         | X                           | X                              | X                            |                               |                               | X                |                   |                 |

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2016

| LOCATION | SPRING<br>DENSITY | SUMMER<br>DENSITY | FALL<br>DENSITY | PERCENT<br>COVER<br>SPRING | PERCENT<br>COVER<br>SUMMER | PERCENT<br>COVER<br>FALL | WINTER<br>COLOR | DOLLAR<br>SPOT | BROWN<br>PATCH<br>WARM TEMP. | ANTHRACNOSE<br>RATINGS | PINK<br>SNOW<br>MOLD |
|----------|-------------------|-------------------|-----------------|----------------------------|----------------------------|--------------------------|-----------------|----------------|------------------------------|------------------------|----------------------|
| CA5      |                   | X                 | X               |                            |                            |                          |                 |                |                              |                        | X                    |
| CA6      | X                 | X                 |                 |                            |                            |                          |                 |                |                              |                        |                      |
| GA3      |                   | X                 | X               |                            |                            |                          |                 |                |                              |                        |                      |
| IA1      |                   |                   |                 |                            |                            |                          |                 |                |                              |                        |                      |
| IL4      |                   |                   |                 |                            |                            |                          |                 |                |                              |                        |                      |
| IN1      | X                 | X                 |                 |                            |                            |                          |                 |                |                              |                        |                      |
| KS1      |                   |                   |                 |                            |                            |                          |                 | X              |                              |                        |                      |
| KY1      |                   |                   |                 |                            |                            |                          |                 | X              | X                            |                        |                      |
| MA1      |                   |                   |                 |                            |                            |                          |                 |                |                              |                        |                      |
| MI1      |                   |                   |                 |                            |                            |                          |                 | X              |                              |                        |                      |
| MN1      | X                 |                   |                 |                            |                            |                          |                 | X              |                              |                        |                      |
| MO1      |                   |                   |                 |                            |                            |                          |                 | X              | X                            |                        |                      |
| NC1      | X                 | X                 | X               | X                          | X                          | X                        | X               | X              |                              | X                      |                      |
| NJ1      |                   |                   | X               |                            |                            |                          |                 | X              | X                            | X                      |                      |
| OK1      |                   | X                 | X               | X                          | X                          | X                        | X               |                |                              |                        |                      |
| UT1      |                   |                   |                 |                            |                            |                          |                 |                |                              |                        |                      |
| UT2      |                   |                   |                 |                            |                            |                          |                 |                |                              |                        |                      |
| VA1      |                   |                   |                 |                            |                            |                          |                 | X              |                              |                        |                      |

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2016

| LOCATION | FALL<br>COLOR<br>NOVEMBER | COOPER<br>SPOT | PERCENT<br>POA<br>ANNUA | WEAR TOLERANCE |      |           | DOLLAR<br>SPOT<br>COUNTS | DOLLAR SPOT<br>INFECTION CENTERS |        | DOLLAR SPOT RATINGS |     |     |     |     |
|----------|---------------------------|----------------|-------------------------|----------------|------|-----------|--------------------------|----------------------------------|--------|---------------------|-----|-----|-----|-----|
|          |                           |                |                         | MAY            | JULY | SEPTEMBER |                          | JUNE                             | AUGUST | JUN                 | JUL | AUG | SEP | OCT |
| CA5      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| CA6      |                           |                | X                       |                |      |           |                          |                                  |        |                     |     |     |     |     |
| GA3      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| IA1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| IL4      | X                         |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| IN1      |                           |                |                         |                |      |           |                          | X                                | X      |                     |     |     |     |     |
| KS1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     | X   |     |
| KY1      |                           |                |                         |                |      |           |                          |                                  |        | X                   | X   |     |     |     |
| MA1      |                           |                |                         | X              | X    | X         | X                        |                                  |        |                     |     |     |     |     |
| MI1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     | X   | X   | X   |
| MN1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| MO1      |                           | X              |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| NC1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| NJ1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     | X   | X   | X   |
| OK1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| UT1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| UT2      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |
| VA1      |                           |                |                         |                |      |           |                          |                                  |        |                     |     |     |     |     |

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT SIX LOCATIONS IN THE U.S. FOR LPI GROUP 1 \*\*/  
2016 DATA

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

| NAME                  | ENTRY NUMBER | NJ1 | NC1 | GA3 | IN1 | MI1 | IA1 | MEAN |
|-----------------------|--------------|-----|-----|-----|-----|-----|-----|------|
| * PST-ROPS            | 17           | 6.1 | 7.6 | 7.2 | 7.6 | 6.8 | 6.8 | 7.0  |
| * PIRANHA (DC-1)      | 16           | 6.5 | 7.6 | 6.1 | 7.2 | 6.7 | 6.8 | 6.8  |
| * PURE SELECT         | 7            | 5.6 | 7.4 | 6.8 | 7.2 | 6.5 | 6.7 | 6.7  |
| DLFPS-AP/3058         | 5            | 6.0 | 7.3 | 6.9 | 6.9 | 6.4 | 6.5 | 6.7  |
| * L-93 XD             | 10           | 7.2 | 7.6 | 4.7 | 7.2 | 6.7 | 6.5 | 6.6  |
| * 777 (DLFPS-AP/3054) | 2            | 6.1 | 7.5 | 5.9 | 7.1 | 6.5 | 6.6 | 6.6  |
| * LUMINARY            | 1            | 6.0 | 7.1 | 6.8 | 6.7 | 6.3 | 6.4 | 6.6  |
| DLFPS-AP/3018         | 3            | 6.0 | 7.6 | 4.3 | 7.2 | 6.4 | 6.5 | 6.3  |
| DLFPS-AP/3056         | 4            | 5.7 | 7.3 | 5.6 | 7.0 | 6.2 | 6.2 | 6.3  |
| * SHARK               | 18           | 5.5 | 7.3 | 5.1 | 6.9 | 6.3 | 6.5 | 6.3  |
| * V-8                 | 14           | 5.7 | 7.5 | 4.3 | 7.1 | 6.3 | 6.5 | 6.2  |
| * GDE                 | 15           | 5.9 | 7.6 | 4.1 | 7.0 | 6.3 | 6.5 | 6.2  |
| * BARRACUDA           | 19           | 5.7 | 7.3 | 5.0 | 6.7 | 6.2 | 6.3 | 6.2  |
| * NIGHTLIFE           | 13           | 4.4 | 7.0 | 6.0 | 6.8 | 5.6 | 5.6 | 5.9  |
| * ARMOR               | 11           | 4.1 | 6.7 | 6.0 | 6.9 | 5.6 | 5.6 | 5.8  |
| DLFPS-AP/3059         | 6            | 4.7 | 6.9 | 5.0 | 6.3 | 5.7 | 6.2 | 5.8  |
| * KINGDOM             | 12           | 4.4 | 7.0 | 4.4 | 6.9 | 5.5 | 5.3 | 5.6  |
| * PENN A-1            | 8            | 4.3 | 7.0 | 4.1 | 6.4 | 5.6 | 6.0 | 5.6  |
| * DECLARATION         | 20           | 5.0 | 7.0 | 3.5 | 6.3 | 5.6 | 5.9 | 5.6  |
| * PENNCROSS           | 9            | 1.2 | 5.3 | 4.8 | 4.8 | 4.0 | 5.2 | 4.2  |
| LSD VALUE             |              | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7  |
| C.V. (%)              |              | 8.5 | 6.3 | 8.5 | 6.7 | 7.5 | 7.3 | 7.4  |

\* COMMERCIALY AVAILABLE IN THE USA IN 2017.

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

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR LPI GROUP 2 \*/  
2016 DATA

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

| NAME                | VA1 | KY1 | KS1 | MEAN |
|---------------------|-----|-----|-----|------|
| GDE                 | 6.3 | 6.8 | 6.3 | 6.5  |
| DLFPS-AP/3018       | 6.2 | 6.8 | 6.1 | 6.4  |
| V-8                 | 6.2 | 6.6 | 6.0 | 6.3  |
| BARRACUDA           | 5.9 | 6.7 | 6.1 | 6.2  |
| PIRANHA (DC-1)      | 5.9 | 6.9 | 5.8 | 6.2  |
| DECLARATION         | 5.9 | 6.4 | 6.2 | 6.2  |
| PENN A-1            | 5.9 | 6.3 | 6.3 | 6.2  |
| DLFPS-AP/3058       | 5.6 | 6.8 | 6.0 | 6.1  |
| DLFPS-AP/3056       | 5.7 | 6.7 | 6.0 | 6.1  |
| 777 (DLFPS-AP/3054) | 5.8 | 6.7 | 5.7 | 6.1  |
| PURE SELECT         | 5.7 | 6.6 | 5.7 | 6.0  |
| DLFPS-AP/3059       | 5.6 | 6.3 | 6.0 | 6.0  |
| SHARK               | 5.8 | 6.4 | 5.7 | 6.0  |
| L-93 XD             | 5.9 | 6.7 | 5.4 | 6.0  |
| PST-ROPS            | 5.7 | 6.7 | 5.5 | 5.9  |
| KINGDOM             | 5.5 | 6.3 | 6.1 | 5.9  |
| NIGHTLIFE           | 5.3 | 6.4 | 6.1 | 5.9  |
| LUMINARY            | 5.2 | 6.4 | 5.3 | 5.7  |
| ARMOR               | 4.9 | 5.7 | 5.1 | 5.2  |
| PENNCROSS           | 4.4 | 4.9 | 5.2 | 4.8  |
| LSD VALUE           | 0.7 | 0.7 | 0.7 | 0.7  |
| C.V. (%)            | 8.0 | 7.0 | 7.8 | 7.6  |

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

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR LPI GROUP 3 \*/  
2016 DATA

| TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/ |     |     |      |
|------------------------------------------------|-----|-----|------|
| NAME                                           | MN1 | M01 | MEAN |
| DLFPS-AP/3058                                  | 6.1 | 6.1 | 6.1  |
| BARRACUDA                                      | 6.0 | 5.8 | 5.9  |
| PIRANHA (DC-1)                                 | 5.9 | 5.9 | 5.9  |
| L-93 XD                                        | 6.1 | 5.7 | 5.9  |
| GDE                                            | 5.9 | 5.7 | 5.8  |
| DLFPS-AP/3056                                  | 5.7 | 5.7 | 5.7  |
| DECLARATION                                    | 5.8 | 5.5 | 5.7  |
| DLFPS-AP/3018                                  | 5.7 | 5.5 | 5.6  |
| 777 (DLFPS-AP/3054)                            | 5.5 | 5.6 | 5.5  |
| LUMINARY                                       | 5.4 | 5.5 | 5.5  |
| NIGHTLIFE                                      | 5.0 | 5.4 | 5.2  |
| V-8                                            | 5.2 | 5.2 | 5.2  |
| DLFPS-AP/3059                                  | 5.1 | 5.2 | 5.1  |
| PURE SELECT                                    | 4.8 | 5.3 | 5.1  |
| KINGDOM                                        | 4.9 | 5.2 | 5.0  |
| PENN A-1                                       | 4.9 | 5.0 | 4.9  |
| PST-ROPS                                       | 4.6 | 5.2 | 4.9  |
| SHARK                                          | 4.8 | 5.0 | 4.9  |
| ARMOR                                          | 3.2 | 4.1 | 3.6  |
| PENNCROSS                                      | 1.9 | 2.9 | 2.4  |
| LSD VALUE                                      | 0.7 | 0.7 | 0.7  |
| C.V. (%)                                       | 8.8 | 8.6 | 8.7  |

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

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR LPI GROUP 4 \*/  
2016 DATA

| TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/ |     |     |      |
|------------------------------------------------|-----|-----|------|
| NAME                                           | OK1 | UT1 | MEAN |
| KINGDOM                                        | 6.7 | 7.6 | 7.1  |
| NIGHTLIFE                                      | 6.7 | 7.3 | 7.0  |
| PST-ROPS                                       | 6.7 | 7.0 | 6.8  |
| ARMOR                                          | 6.4 | 6.9 | 6.7  |
| DLFPS-AP/3056                                  | 6.4 | 6.7 | 6.6  |
| DLFPS-AP/3018                                  | 6.5 | 6.6 | 6.5  |
| PURE SELECT                                    | 6.5 | 6.5 | 6.5  |
| 777 (DLFPS-AP/3054)                            | 6.4 | 6.5 | 6.4  |
| PIRANHA (DC-1)                                 | 6.3 | 6.4 | 6.4  |
| V-8                                            | 6.5 | 6.3 | 6.4  |
| L-93 XD                                        | 6.0 | 6.7 | 6.3  |
| DLFPS-AP/3058                                  | 6.3 | 6.4 | 6.3  |
| GDE                                            | 6.4 | 6.2 | 6.3  |
| BARRACUDA                                      | 6.2 | 6.1 | 6.2  |
| SHARK                                          | 6.3 | 6.0 | 6.2  |
| PENN A-1                                       | 6.3 | 5.6 | 6.0  |
| LUMINARY                                       | 5.9 | 6.0 | 6.0  |
| DECLARATION                                    | 6.0 | 5.7 | 5.9  |
| DLFPS-AP/3059                                  | 6.1 | 5.4 | 5.7  |
| PENNCROSS                                      | 5.3 | 3.0 | 4.2  |
| LSD VALUE                                      | 0.7 | 0.7 | 0.7  |
| C.V. (%)                                       | 7.2 | 7.3 | 7.2  |

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

TABLE 5.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME                | SPRING<br>GREENUP | DOLLAR SPOT<br>COUNTS/PLOT | WEAR TOLERANCE RATINGS |      |           | QUALITY RATINGS |     |      |      |      |     |     |     |     | MEAN |
|---------------------|-------------------|----------------------------|------------------------|------|-----------|-----------------|-----|------|------|------|-----|-----|-----|-----|------|
|                     |                   |                            | MAY                    | JULY | SEPTEMBER | APR             | MAY | JUN  | JUL  | AUG  | SEP | OCT | NOV | DEC |      |
| PST-ROPS            | 5.0               | 18.7                       | 5.7                    | 5.7  | 6.7       | 7.0             | 7.3 | 6.7  | 6.3  | 7.3  | 6.0 | 6.7 | 5.7 | 6.3 | 6.6  |
| DLFPS-AP/3018       | 5.0               | 24.3                       | 6.7                    | 6.3  | 6.7       | 6.0             | 6.3 | 6.0  | 6.3  | 6.3  | 6.0 | 6.7 | 7.0 | 6.7 | 6.4  |
| 777 (DLFPS-AP/3054) | 4.3               | 7.0                        | 5.3                    | 5.3  | 5.7       | 6.0             | 7.0 | 5.7  | 5.7  | 6.0  | 5.7 | 6.7 | 6.0 | 6.0 | 6.1  |
| GDE                 | 5.3               | 10.3                       | 6.3                    | 5.3  | 5.7       | 5.7             | 7.0 | 6.0  | 6.0  | 6.7  | 6.3 | 6.0 | 5.7 | 6.0 | 6.1  |
| KINGDOM             | 5.0               | 5.7                        | 7.7                    | 6.7  | 6.7       | 6.7             | 7.7 | 6.3  | 5.3  | 6.0  | 6.3 | 5.3 | 5.7 | 5.7 | 6.1  |
| PIRANHA (DC-1)      | 4.3               | 8.3                        | 5.7                    | 5.3  | 5.3       | 6.3             | 6.7 | 6.3  | 6.3  | 6.3  | 5.3 | 6.0 | 5.3 | 6.3 | 6.1  |
| DLFPS-AP/3056       | 3.7               | 16.3                       | 6.7                    | 6.0  | 6.3       | 5.7             | 6.7 | 6.0  | 5.3  | 6.0  | 5.7 | 6.3 | 6.0 | 6.0 | 6.0  |
| DLFPS-AP/3058       | 4.7               | 11.0                       | 5.3                    | 5.3  | 5.7       | 5.7             | 6.7 | 5.7  | 5.3  | 5.7  | 5.7 | 6.3 | 6.3 | 6.3 | 6.0  |
| L-93 XD             | 4.7               | 24.7                       | 5.0                    | 5.7  | 6.7       | 6.0             | 6.3 | 6.0  | 5.7  | 6.3  | 5.3 | 6.3 | 6.3 | 6.0 | 6.0  |
| BARRACUDA           | 4.0               | 40.3                       | 5.7                    | 6.3  | 5.7       | 6.0             | 6.7 | 5.3  | 5.7  | 5.7  | 5.7 | 6.0 | 6.0 | 5.3 | 5.8  |
| NIGHTLIFE           | 4.0               | 10.3                       | 7.3                    | 6.7  | 5.7       | 6.3             | 7.0 | 5.7  | 5.7  | 6.3  | 6.0 | 5.0 | 5.3 | 5.0 | 5.8  |
| PURE SELECT         | 4.7               | 6.7                        | 5.0                    | 5.0  | 4.7       | 5.3             | 6.3 | 6.3  | 5.7  | 6.3  | 5.7 | 6.3 | 5.0 | 5.3 | 5.8  |
| LUMINARY            | 4.7               | 5.7                        | 4.7                    | 5.0  | 5.7       | 6.0             | 6.3 | 6.0  | 5.7  | 5.3  | 5.3 | 5.7 | 5.3 | 5.3 | 5.7  |
| SHARK               | 4.0               | 17.3                       | 4.7                    | 5.3  | 5.7       | 5.7             | 5.7 | 5.3  | 5.3  | 5.7  | 6.0 | 5.7 | 5.0 | 5.0 | 5.5  |
| V-8                 | 4.7               | 16.7                       | 5.7                    | 5.7  | 6.3       | 6.3             | 6.3 | 5.3  | 5.3  | 6.3  | 5.3 | 5.3 | 5.0 | 4.3 | 5.5  |
| DLFPS-AP/3059       | 3.7               | 21.7                       | 6.3                    | 5.3  | 5.3       | 5.3             | 6.3 | 5.7  | 5.0  | 5.3  | 5.3 | 5.7 | 5.0 | 5.3 | 5.4  |
| DECLARATION         | 4.7               | 12.0                       | 5.3                    | 4.3  | 5.0       | 5.0             | 6.3 | 5.0  | 4.7  | 5.3  | 5.0 | 6.0 | 5.3 | 5.0 | 5.3  |
| ARMOR               | 4.7               | 31.0                       | 5.3                    | 5.7  | 5.3       | 5.3             | 5.7 | 5.7  | 4.7  | 5.7  | 5.0 | 5.0 | 5.0 | 4.7 | 5.2  |
| PENN A-1            | 3.0               | 21.7                       | 6.0                    | 5.7  | 6.0       | 5.0             | 5.7 | 5.0  | 4.3  | 4.7  | 5.3 | 5.0 | 5.0 | 4.7 | 5.0  |
| PENNCROSS           | 2.3               | 30.3                       | 3.7                    | 3.7  | 4.0       | 4.0             | 4.3 | 3.3  | 3.0  | 3.0  | 3.7 | 4.0 | 4.0 | 3.7 | 3.7  |
| LSD VALUE           | 1.5               | 22.4                       | 0.8                    | 0.8  | 1.0       | 1.3             | 1.1 | 1.0  | 1.0  | 1.0  | 0.9 | 0.6 | 0.6 | 0.7 | 0.6  |
| C.V. (%)            | 17.6              | 64.6                       | 9.2                    | 9.3  | 9.9       | 12.2            | 9.7 | 10.0 | 10.8 | 10.3 | 9.5 | 6.4 | 6.5 | 8.3 | 6.3  |

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

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

TABLE 6. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER DROUGHT STRESS AT LOGAN, UT 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME                | SPRING<br>GREENUP | QUALITY RATINGS |      |      |      |      |     |      | MEAN |
|---------------------|-------------------|-----------------|------|------|------|------|-----|------|------|
|                     |                   | APR             | MAY  | JUN  | JUL  | AUG  | SEP | OCT  |      |
| KINGDOM             | 9.0               | 7.7             | 7.0  | 7.3  | 6.7  | 7.0  | 7.3 | 8.0  | 7.3  |
| PST-ROPS            | 9.0               | 6.7             | 7.3  | 7.0  | 5.7  | 7.3  | 7.0 | 7.3  | 6.9  |
| PIRANHA (DC-1)      | 9.0               | 6.7             | 6.3  | 7.0  | 5.3  | 6.3  | 7.7 | 6.7  | 6.6  |
| ARMOR               | 9.0               | 7.0             | 6.3  | 6.0  | 6.3  | 5.7  | 6.7 | 7.0  | 6.4  |
| PURE SELECT         | 8.3               | 6.3             | 7.0  | 7.0  | 5.7  | 6.0  | 6.3 | 6.3  | 6.4  |
| DLFPS-AP/3018       | 9.0               | 5.3             | 7.3  | 6.7  | 5.7  | 5.3  | 7.0 | 6.7  | 6.3  |
| DLFPS-AP/3058       | 9.0               | 6.7             | 6.3  | 6.0  | 5.7  | 6.3  | 6.3 | 6.7  | 6.3  |
| GDE                 | 9.0               | 6.3             | 6.3  | 7.0  | 5.3  | 6.3  | 6.3 | 6.3  | 6.3  |
| V-8                 | 9.0               | 6.0             | 6.7  | 6.7  | 5.7  | 6.7  | 6.3 | 6.0  | 6.3  |
| NIGHTLIFE           | 9.0               | 6.7             | 7.0  | 6.3  | 5.7  | 5.0  | 5.7 | 7.0  | 6.2  |
| 777 (DLFPS-AP/3054) | 8.7               | 6.7             | 6.3  | 6.0  | 6.0  | 5.7  | 6.3 | 5.7  | 6.1  |
| L-93 XD             | 9.0               | 6.0             | 6.3  | 6.0  | 4.7  | 6.0  | 6.7 | 6.0  | 6.0  |
| DLFPS-AP/3056       | 9.0               | 5.7             | 5.7  | 6.0  | 5.3  | 5.7  | 6.7 | 6.0  | 5.9  |
| SHARK               | 9.0               | 6.3             | 5.7  | 6.0  | 4.3  | 5.3  | 6.0 | 6.7  | 5.8  |
| BARRACUDA           | 9.0               | 5.7             | 6.0  | 5.7  | 4.3  | 4.7  | 6.3 | 5.7  | 5.5  |
| DECLARATION         | 9.0               | 6.0             | 5.7  | 6.3  | 4.0  | 4.7  | 6.3 | 5.3  | 5.5  |
| LUMINARY            | 9.0               | 6.0             | 5.3  | 6.3  | 5.0  | 4.7  | 5.7 | 4.7  | 5.4  |
| DLFPS-AP/3059       | 9.0               | 5.0             | 5.3  | 5.0  | 4.3  | 5.0  | 5.3 | 4.7  | 5.0  |
| PENN A-1            | 8.3               | 5.3             | 5.3  | 5.3  | 4.3  | 4.3  | 5.3 | 4.0  | 4.9  |
| PENNCROSS           | 8.0               | 3.0             | 3.0  | 2.7  | 2.7  | 3.0  | 3.7 | 2.7  | 3.0  |
| LSD VALUE           | 0.4               | 1.3             | 1.1  | 1.2  | 1.2  | 1.2  | 1.0 | 1.0  | 0.6  |
| C.V. (%)            | 2.6               | 12.4            | 10.7 | 12.3 | 14.1 | 12.8 | 9.6 | 10.9 | 6.6  |

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).

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TABLE 7. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME                | GENETIC<br>COLOR | DENSITY<br>SUMMER | DENSITY<br>FALL | PINK<br>SNOW MOLD | JAN | FEB | MAR | APR | MAY | QUALITY RATINGS |     |     |     |      |     |     | MEAN |
|---------------------|------------------|-------------------|-----------------|-------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|------|-----|-----|------|
|                     |                  |                   |                 |                   |     |     |     |     |     | JUN             | JUL | AUG | SEP | OCT  | NOV | DEC |      |
| L-93 XD             | 7.0              | 7.0               | 7.0             | 8.0               | 6.3 | 6.3 | 6.3 | 7.3 | 7.7 | 7.0             | 6.7 | 6.7 | 7.0 | 6.0  | 6.7 | 7.0 | 6.8  |
| PURE SELECT         | 6.7              | 7.3               | 7.0             | 6.0               | 6.7 | 6.7 | 6.7 | 6.7 | 7.3 | 7.3             | 7.0 | 6.3 | 7.0 | 6.3  | 6.7 | 7.3 | 6.8  |
| KINGDOM             | 8.0              | 5.7               | 6.3             | 8.0               | 7.0 | 7.0 | 7.0 | 6.3 | 7.3 | 6.0             | 6.7 | 6.3 | 6.7 | 5.7  | 6.3 | 7.0 | 6.6  |
| 777 (DLFPS-AP/3054) | 7.0              | 7.0               | 6.3             | 8.7               | 6.0 | 6.0 | 6.0 | 6.7 | 7.7 | 7.0             | 6.3 | 6.7 | 6.7 | 6.0  | 6.7 | 6.7 | 6.5  |
| NIGHTLIFE           | 8.0              | 6.0               | 7.0             | 8.0               | 7.0 | 7.0 | 7.0 | 6.3 | 7.0 | 6.0             | 6.3 | 6.0 | 6.7 | 5.7  | 6.3 | 7.0 | 6.5  |
| BARRACUDA           | 6.7              | 6.7               | 6.3             | 8.0               | 6.7 | 6.7 | 6.7 | 6.3 | 7.3 | 6.7             | 6.0 | 6.0 | 6.3 | 5.7  | 6.0 | 6.7 | 6.4  |
| DLFPS-AP/3018       | 6.3              | 7.0               | 6.7             | 6.3               | 6.3 | 6.3 | 6.3 | 6.3 | 7.0 | 7.0             | 6.0 | 6.0 | 6.7 | 6.0  | 6.3 | 6.7 | 6.4  |
| GDE                 | 7.3              | 6.0               | 6.3             | 7.7               | 6.3 | 6.3 | 6.3 | 6.7 | 7.0 | 6.0             | 6.0 | 6.0 | 7.0 | 5.7  | 6.0 | 7.0 | 6.4  |
| PST-ROPS            | 7.0              | 7.7               | 7.0             | 6.0               | 6.0 | 5.7 | 5.7 | 6.3 | 7.0 | 7.3             | 6.3 | 6.3 | 7.0 | 5.3  | 6.3 | 7.3 | 6.4  |
| SHARK               | 6.7              | 6.7               | 6.7             | 7.0               | 6.3 | 6.3 | 6.3 | 5.7 | 7.7 | 6.7             | 6.3 | 6.3 | 6.7 | 5.7  | 6.0 | 6.3 | 6.4  |
| V-8                 | 7.0              | 6.7               | 6.7             | 8.0               | 6.0 | 6.0 | 6.0 | 6.0 | 7.3 | 6.7             | 6.7 | 6.0 | 7.0 | 6.0  | 6.7 | 6.3 | 6.4  |
| ARMOR               | 8.0              | 6.0               | 6.3             | 7.7               | 6.7 | 6.7 | 6.7 | 6.0 | 7.0 | 6.0             | 5.7 | 5.7 | 6.7 | 5.3  | 6.3 | 6.7 | 6.3  |
| DLFPS-AP/3058       | 7.0              | 6.3               | 6.7             | 6.7               | 6.0 | 6.0 | 6.0 | 6.7 | 7.0 | 6.0             | 6.0 | 6.3 | 6.7 | 5.7  | 6.7 | 6.7 | 6.3  |
| DLFPS-AP/3056       | 7.0              | 6.0               | 6.7             | 7.0               | 6.0 | 6.0 | 6.0 | 5.7 | 7.3 | 6.3             | 5.7 | 6.0 | 6.7 | 5.3  | 6.3 | 6.7 | 6.2  |
| PENN A-1            | 8.0              | 5.7               | 6.0             | 7.0               | 6.0 | 6.0 | 6.0 | 6.3 | 7.3 | 6.0             | 6.0 | 6.0 | 6.0 | 6.0  | 6.0 | 6.3 | 6.2  |
| LUMINARY            | 6.0              | 5.7               | 6.0             | 7.7               | 6.0 | 6.0 | 6.0 | 6.0 | 7.0 | 5.7             | 6.0 | 6.3 | 6.0 | 5.7  | 6.3 | 6.7 | 6.1  |
| PIRANHA (DC-1)      | 7.0              | 7.0               | 6.3             | 6.7               | 6.0 | 6.0 | 6.0 | 5.7 | 7.0 | 6.7             | 6.0 | 6.0 | 6.3 | 5.3  | 6.3 | 6.3 | 6.1  |
| DLFPS-AP/3059       | 6.0              | 5.3               | 6.0             | 8.0               | 6.0 | 6.0 | 6.0 | 6.0 | 6.7 | 5.3             | 5.7 | 5.7 | 6.3 | 5.7  | 6.0 | 5.7 | 5.9  |
| DECLARATION         | 6.7              | 5.3               | 5.3             | 7.3               | 6.0 | 6.0 | 6.0 | 6.3 | 6.7 | 5.0             | 5.7 | 5.7 | 5.7 | 4.7  | 5.0 | 5.3 | 5.7  |
| PENNCROSS           | 4.3              | 4.0               | 5.0             | 8.0               | 6.0 | 5.7 | 5.7 | 4.7 | 6.3 | 4.0             | 4.3 | 5.0 | 5.0 | 4.7  | 4.7 | 5.0 | 5.1  |
| LSD VALUE           | 0.6              | 0.8               | 0.8             | 1.2               | 0.6 | 0.7 | 0.7 | 0.9 | 1.3 | 0.8             | 0.9 | 1.5 | 0.8 | 1.5  | 1.1 | 1.2 | 0.4  |
| C.V. (%)            | 6.1              | 8.5               | 7.1             | 9.1               | 5.5 | 6.3 | 6.3 | 8.0 | 7.1 | 7.8             | 8.4 | 9.4 | 6.9 | 10.7 | 9.2 | 9.4 | 4.2  |

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

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

TABLE 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT LOS ANGELES (LOS ANGELES COUNTRY CLUB), CA 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME          | GENETIC<br>COLOR | DENSITY<br>SPRING | DENSITY<br>SUMMER | PERCENT      |     |     |     |     |     |     | QUALITY RATINGS |     |     |     |     |     |      |
|---------------|------------------|-------------------|-------------------|--------------|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|------|
|               |                  |                   |                   | POA<br>ANNUA | JAN | FEB | MAR | APR | MAY | JUN | JUL             | AUG | SEP | OCT | NOV | DEC | MEAN |
| PST-ROPS      | 7.3              | 7.3               | 7.3               | 2.0          | 6.3 | 7.3 | 7.0 | 7.3 | 7.7 | 7.3 | 8.0             | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.6  |
| 777           | 7.0              | 7.0               | 7.0               | 4.7          | 6.7 | 7.0 | 6.7 | 7.3 | 7.3 | 7.0 | 7.3             | 7.7 | 7.3 | 7.3 | 7.3 | 7.3 | 7.2  |
| L-93 XD       | 6.7              | 7.0               | 7.0               | 0.7          | 6.0 | 6.3 | 7.0 | 7.0 | 7.7 | 7.3 | 8.0             | 7.7 | 7.7 | 7.0 | 7.3 | 7.3 | 7.2  |
| DC-1          | 7.3              | 7.0               | 7.0               | 0.7          | 6.7 | 7.0 | 7.3 | 7.3 | 7.0 | 7.0 | 7.7             | 7.3 | 7.3 | 7.0 | 6.7 | 6.7 | 7.1  |
| DLFPS-AP/3018 | 6.7              | 7.3               | 6.7               | 0.7          | 6.0 | 6.7 | 7.0 | 7.3 | 7.0 | 7.0 | 7.7             | 7.7 | 7.7 | 7.0 | 7.3 | 7.0 | 7.1  |
| DLFPS-AP/3058 | 7.0              | 7.3               | 7.0               | 2.0          | 6.3 | 7.0 | 7.0 | 7.0 | 7.3 | 7.0 | 7.7             | 7.3 | 7.3 | 6.7 | 7.0 | 7.0 | 7.1  |
| LUMINARY      | 7.3              | 6.7               | 6.7               | 4.0          | 6.7 | 6.7 | 6.0 | 7.3 | 7.7 | 7.0 | 7.7             | 7.7 | 7.3 | 6.7 | 6.7 | 6.3 | 7.0  |
| DLFPS-AP/3056 | 7.3              | 7.0               | 6.7               | 2.7          | 6.7 | 6.7 | 6.7 | 6.7 | 7.0 | 6.7 | 7.3             | 7.3 | 7.0 | 7.0 | 6.7 | 6.7 | 6.9  |
| GDE           | 7.0              | 6.7               | 6.7               | 4.0          | 6.7 | 6.7 | 6.0 | 6.7 | 7.0 | 6.7 | 7.0             | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.8  |
| SHARK         | 7.0              | 6.7               | 7.0               | 0.7          | 6.3 | 6.7 | 6.7 | 7.0 | 7.0 | 7.0 | 7.0             | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.8  |
| V-8           | 7.3              | 6.7               | 6.7               | 3.0          | 6.7 | 6.7 | 6.0 | 7.0 | 7.0 | 6.7 | 7.0             | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.8  |
| ARMOR         | 8.0              | 7.0               | 6.7               | 4.7          | 5.7 | 6.3 | 7.0 | 7.0 | 6.7 | 6.3 | 7.0             | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.7  |
| BARRACUDA     | 7.3              | 7.0               | 7.0               | 4.7          | 6.3 | 6.7 | 6.0 | 6.7 | 6.7 | 6.3 | 6.7             | 7.0 | 6.7 | 7.0 | 6.7 | 7.0 | 6.6  |
| KINGDOM       | 7.7              | 6.7               | 6.3               | 8.3          | 6.0 | 6.0 | 6.0 | 7.0 | 6.7 | 6.3 | 6.7             | 6.7 | 7.0 | 6.7 | 7.0 | 7.0 | 6.6  |
| PENN A-1      | 7.7              | 6.7               | 6.7               | 3.0          | 7.0 | 7.0 | 6.3 | 7.0 | 7.0 | 6.3 | 7.0             | 7.0 | 7.0 | 6.0 | 6.0 | 6.0 | 6.6  |
| NIGHTLIFE     | 8.0              | 7.0               | 6.0               | 5.7          | 6.0 | 6.3 | 6.3 | 7.0 | 6.7 | 6.0 | 7.0             | 7.0 | 7.0 | 6.7 | 6.0 | 6.0 | 6.5  |
| PURE SELECT   | 7.0              | 6.7               | 7.0               | 1.7          | 6.3 | 6.3 | 6.7 | 6.3 | 6.3 | 7.3 | 6.3             | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.4  |
| DECLARATION   | 6.7              | 6.7               | 6.0               | 3.7          | 6.3 | 6.7 | 6.0 | 6.3 | 7.0 | 5.7 | 6.3             | 6.3 | 6.7 | 6.0 | 6.3 | 6.0 | 6.3  |
| DLFPS-AP/3059 | 6.7              | 6.3               | 6.0               | 3.0          | 6.0 | 6.3 | 6.0 | 6.7 | 6.7 | 6.3 | 6.7             | 6.7 | 6.3 | 6.0 | 6.3 | 6.0 | 6.3  |
| PENNCROSS     | 5.7              | 5.0               | 6.0               | 5.7          | 6.3 | 6.3 | 5.0 | 6.3 | 6.3 | 5.0 | 6.3             | 6.3 | 6.3 | 5.7 | 5.3 | 5.0 | 5.9  |
| LSD VALUE     | 1.1              | 0.8               | 0.7               | 2.5          | 1.9 | 1.4 | 0.8 | 1.0 | 1.4 | 0.9 | 0.8             | 1.0 | 0.8 | 0.6 | 0.9 | 0.7 | 0.5  |
| C.V. (%)      | 8.1              | 6.7               | 5.8               | 46.4         | 9.8 | 7.6 | 7.2 | 6.5 | 8.0 | 7.5 | 6.3             | 7.2 | 6.2 | 5.8 | 7.7 | 6.3 | 4.5  |

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

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

TABLE 9. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT GLENVIEW (NORTH SHORE COUNTRY CLUB), IL 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME                | GENETIC<br>COLOR | FALL<br>COLOR<br>NOVEMBER | APR  | MAY  | JUN  | QUALITY RATINGS |      |      |      | MEAN |
|---------------------|------------------|---------------------------|------|------|------|-----------------|------|------|------|------|
|                     |                  |                           |      |      |      | JUL             | AUG  | SEP  | OCT  |      |
| GDE                 | 6.0              | 5.3                       | 7.0  | 7.3  | 6.0  | 6.7             | 7.0  | 7.0  | 7.3  | 6.9  |
| 777 (DLFPS-AP/3054) | 6.3              | 5.7                       | 7.0  | 7.3  | 6.0  | 5.7             | 7.7  | 6.3  | 7.0  | 6.7  |
| PIRANHA (DC-1)      | 5.7              | 5.3                       | 6.3  | 7.7  | 6.3  | 6.3             | 7.3  | 6.7  | 6.0  | 6.7  |
| DLFPS-AP/3056       | 6.0              | 5.3                       | 6.3  | 7.3  | 5.7  | 6.3             | 7.3  | 6.3  | 6.7  | 6.6  |
| DLFPS-AP/3059       | 5.7              | 5.7                       | 6.7  | 6.0  | 6.7  | 7.0             | 7.3  | 6.3  | 5.7  | 6.5  |
| PST-ROPS            | 4.7              | 6.3                       | 7.0  | 6.7  | 5.3  | 6.7             | 6.7  | 6.7  | 6.0  | 6.4  |
| DLFPS-AP/3058       | 6.0              | 6.3                       | 6.0  | 6.3  | 5.3  | 6.0             | 7.0  | 7.3  | 6.0  | 6.3  |
| LUMINARY            | 5.3              | 5.3                       | 6.0  | 7.3  | 6.3  | 6.7             | 7.0  | 5.3  | 5.7  | 6.3  |
| BARRACUDA           | 5.7              | 6.3                       | 7.0  | 6.3  | 5.0  | 6.7             | 6.7  | 6.3  | 5.7  | 6.2  |
| DLFPS-AP/3018       | 5.3              | 5.7                       | 6.3  | 6.3  | 5.3  | 6.3             | 7.3  | 6.0  | 6.0  | 6.2  |
| PENN A-1            | 6.0              | 4.7                       | 6.0  | 7.3  | 5.7  | 6.0             | 6.3  | 6.3  | 5.7  | 6.2  |
| PURE SELECT         | 5.7              | 5.0                       | 6.3  | 6.7  | 5.0  | 5.7             | 7.0  | 6.7  | 5.3  | 6.1  |
| ARMOR               | 5.7              | 5.3                       | 6.0  | 6.3  | 5.7  | 6.0             | 6.7  | 5.7  | 5.3  | 6.0  |
| NIGHTLIFE           | 5.7              | 5.3                       | 6.7  | 6.3  | 5.3  | 6.0             | 6.7  | 6.0  | 5.0  | 6.0  |
| SHARK               | 5.0              | 5.3                       | 6.3  | 6.3  | 6.3  | 6.0             | 6.7  | 6.0  | 4.7  | 6.0  |
| V-8                 | 5.3              | 4.7                       | 6.3  | 6.0  | 6.0  | 6.0             | 6.7  | 6.0  | 5.0  | 6.0  |
| PENNCROSS           | 5.3              | 5.3                       | 6.0  | 6.0  | 5.3  | 5.3             | 5.7  | 6.0  | 5.0  | 5.6  |
| DECLARATION         | 5.3              | 5.0                       | 6.0  | 5.7  | 5.0  | 6.0             | 5.7  | 5.0  | 4.0  | 5.3  |
| L-93 XD             | 5.3              | 5.3                       | 6.0  | 6.3  | 5.0  | 4.7             | 6.0  | 5.0  | 4.0  | 5.3  |
| KINGDOM             | 6.0              | 4.7                       | 4.7  | 5.3  | 5.0  | 5.7             | 6.3  | 5.3  | 4.3  | 5.2  |
| LSD VALUE           | 3.2              | 1.5                       | 1.8  | 1.4  | 5.1  | 3.3             | 2.0  | 1.5  | 1.9  | 1.3  |
| C.V. (%)            | 16.1             | 12.1                      | 11.9 | 11.0 | 24.6 | 16.9            | 11.9 | 11.7 | 17.6 | 9.8  |

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

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

TABLE 10. GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

| GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/ |     |     |     |     |     |      |     |     |      |      |      |
|--------------------------------------------|-----|-----|-----|-----|-----|------|-----|-----|------|------|------|
| NAME                                       | GA3 | IA1 | IN1 | KS1 | MI1 | MN1  | NC1 | NJ1 | UT1  | VA1  | MEAN |
| NIGHTLIFE                                  | 8.0 | 9.0 | 7.3 | 8.0 | 8.0 | 9.0  | 8.0 | 8.7 | 8.7  | 8.0  | 8.3  |
| KINGDOM                                    | 8.0 | 9.0 | 7.0 | 7.0 | 7.7 | 9.0  | 8.0 | 8.3 | 9.0  | 8.0  | 8.1  |
| ARMOR                                      | 8.0 | 9.0 | 7.3 | 8.0 | 7.7 | 9.0  | 8.0 | 7.7 | 8.0  | 8.0  | 8.1  |
| DLFPS-AP/3056                              | 8.0 | 7.7 | 5.7 | 6.7 | 6.7 | 7.7  | 7.0 | 5.7 | 5.7  | 7.0  | 6.8  |
| PST-ROPS                                   | 8.0 | 8.7 | 8.0 | 6.7 | 6.0 | 5.7  | 7.0 | 4.3 | 5.7  | 6.0  | 6.6  |
| PIRANHA (DC-1)                             | 8.0 | 8.0 | 7.0 | 7.0 | 6.0 | 5.3  | 7.0 | 5.0 | 5.7  | 6.7  | 6.6  |
| V-8                                        | 8.0 | 7.0 | 6.7 | 6.7 | 6.7 | 5.7  | 7.0 | 5.0 | 6.7  | 6.0  | 6.5  |
| PENN A-1                                   | 7.3 | 6.7 | 6.3 | 6.7 | 6.7 | 6.3  | 6.7 | 6.0 | 5.3  | 6.7  | 6.5  |
| 777 (DLFPS-AP/3054)                        | 8.0 | 7.7 | 6.7 | 6.3 | 6.0 | 5.7  | 7.3 | 4.7 | 5.7  | 6.3  | 6.4  |
| DLFPS-AP/3018                              | 7.3 | 7.3 | 7.0 | 7.0 | 6.0 | 5.0  | 7.0 | 5.3 | 6.0  | 6.3  | 6.4  |
| GDE                                        | 7.7 | 7.7 | 6.3 | 6.3 | 6.0 | 5.3  | 7.0 | 5.0 | 6.3  | 6.3  | 6.4  |
| LUMINARY                                   | 7.7 | 7.3 | 6.3 | 6.3 | 6.0 | 5.0  | 7.0 | 6.0 | 5.7  | 6.7  | 6.4  |
| DLFPS-AP/3058                              | 8.0 | 8.0 | 6.3 | 7.0 | 6.0 | 4.7  | 7.0 | 4.7 | 5.7  | 6.3  | 6.4  |
| PURE SELECT                                | 7.7 | 7.3 | 6.7 | 7.0 | 6.0 | 6.0  | 7.0 | 4.3 | 5.3  | 6.0  | 6.3  |
| SHARK                                      | 7.7 | 6.7 | 7.0 | 6.3 | 6.0 | 4.7  | 6.7 | 4.7 | 6.3  | 6.3  | 6.2  |
| L-93 XD                                    | 8.0 | 6.7 | 7.7 | 6.0 | 5.7 | 5.0  | 7.0 | 4.7 | 5.0  | 6.3  | 6.2  |
| DLFPS-AP/3059                              | 7.3 | 7.0 | 6.3 | 7.7 | 6.0 | 5.0  | 6.7 | 4.7 | 5.0  | 6.0  | 6.2  |
| BARRACUDA                                  | 7.0 | 6.3 | 6.7 | 6.7 | 6.0 | 5.3  | 7.0 | 4.3 | 5.3  | 6.7  | 6.1  |
| DECLARATION                                | 7.0 | 6.3 | 6.3 | 6.7 | 5.0 | 5.3  | 7.0 | 5.3 | 4.7  | 6.3  | 6.0  |
| PENNCROSS                                  | 7.0 | 6.0 | 4.0 | 7.0 | 6.3 | 4.0  | 5.3 | 3.0 | 2.7  | 6.3  | 5.2  |
| LSD VALUE                                  | 0.5 | 1.1 | 0.9 | 0.8 | 0.7 | 1.2  | 0.5 | 0.9 | 1.3  | 1.2  | 0.3  |
| C.V. (%)                                   | 4.4 | 9.5 | 8.0 | 7.1 | 6.5 | 12.9 | 4.1 | 9.9 | 13.6 | 11.2 | 8.9  |

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

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

TABLE 11. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | MI1  | MN1  | NC1 | NJ1  | UT1 | MEAN |
|---------------------|------|------|-----|------|-----|------|
| L-93 XD             | 7.0  | 7.0  | 7.0 | 8.3  | 8.7 | 7.6  |
| PST-ROPS            | 7.3  | 7.3  | 7.0 | 7.7  | 8.7 | 7.6  |
| 777 (DLFPS-AP/3054) | 6.7  | 7.0  | 7.0 | 7.3  | 9.0 | 7.4  |
| PIRANHA (DC-1)      | 7.0  | 6.0  | 7.0 | 8.0  | 9.0 | 7.4  |
| DLFPS-AP/3058       | 7.0  | 6.7  | 7.0 | 6.7  | 9.0 | 7.3  |
| SHARK               | 6.7  | 7.0  | 7.0 | 6.3  | 9.0 | 7.2  |
| GDE                 | 6.7  | 5.7  | 7.0 | 7.0  | 9.0 | 7.1  |
| BARRACUDA           | 6.0  | 6.3  | 7.0 | 7.0  | 9.0 | 7.1  |
| DLFPS-AP/3056       | 7.3  | 6.0  | 7.0 | 6.0  | 9.0 | 7.1  |
| LUMINARY            | 6.7  | 6.7  | 7.0 | 5.7  | 9.0 | 7.0  |
| DLFPS-AP/3018       | 6.7  | 5.7  | 7.3 | 6.0  | 9.0 | 6.9  |
| V-8                 | 6.0  | 6.7  | 7.0 | 5.0  | 9.0 | 6.7  |
| DECLARATION         | 5.7  | 5.7  | 7.0 | 6.0  | 9.0 | 6.7  |
| NIGHTLIFE           | 7.0  | 7.0  | 7.0 | 3.7  | 8.7 | 6.7  |
| DLFPS-AP/3059       | 6.7  | 5.3  | 7.0 | 4.7  | 9.0 | 6.5  |
| ARMOR               | 6.3  | 6.3  | 7.0 | 3.3  | 9.0 | 6.4  |
| PURE SELECT         | 6.0  | 6.3  | 7.3 | 3.3  | 8.7 | 6.3  |
| KINGDOM             | 7.0  | 4.3  | 6.7 | 3.7  | 9.0 | 6.1  |
| PENN A-1            | 5.7  | 4.7  | 7.0 | 4.0  | 8.3 | 5.9  |
| PENNCROSS           | 5.0  | 2.0  | 6.3 | 2.0  | 8.0 | 4.7  |
| LSD VALUE           | 1.2  | 1.5  | 0.4 | 1.5  | 0.5 | 0.5  |
| C.V. (%)            | 11.7 | 16.0 | 3.7 | 16.3 | 3.3 | 10.4 |

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

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

TABLE 12. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | IN1 | NC1 | MEAN |
|---------------------|-----|-----|------|
| PST-ROPS            | 9.0 | 8.0 | 8.3  |
| V-8                 | 9.0 | 8.0 | 8.0  |
| DLFPS-AP/3058       | 8.0 | 7.7 | 7.9  |
| PIRANHA (DC-1)      | 8.0 | 8.0 | 7.9  |
| PURE SELECT         | 8.3 | 8.0 | 7.9  |
| DLFPS-AP/3018       | 7.7 | 8.0 | 7.8  |
| SHARK               | 8.0 | 8.0 | 7.8  |
| 777 (DLFPS-AP/3054) | 7.3 | 8.0 | 7.7  |
| GDE                 | 8.0 | 8.0 | 7.7  |
| L-93 XD             | 7.0 | 8.0 | 7.7  |
| BARRACUDA           | 6.7 | 8.0 | 7.4  |
| ARMOR               | 7.3 | 8.0 | 7.3  |
| DLFPS-AP/3056       | 6.7 | 7.7 | 7.3  |
| KINGDOM             | 7.3 | 8.0 | 7.1  |
| DECLARATION         | 6.7 | 8.0 | 7.0  |
| DLFPS-AP/3059       | 6.3 | 8.0 | 7.0  |
| LUMINARY            | 7.0 | 7.7 | 7.0  |
| NIGHTLIFE           | 7.3 | 7.7 | 7.0  |
| PENN A-1            | 6.3 | 8.0 | 6.8  |
| PENNCROSS           | 3.7 | 6.0 | 3.9  |
| LSD VALUE           | 1.0 | 0.4 | 0.5  |
| C.V. (%)            | 8.1 | 3.3 | 8.1  |

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

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

TABLE 13. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | IN1 | MN1  | NC1 | MEAN |
|---------------------|-----|------|-----|------|
| PST-ROPS            | 8.7 | 7.7  | 7.3 | 7.9  |
| V-8                 | 8.7 | 7.7  | 7.0 | 7.8  |
| L-93 XD             | 8.3 | 7.0  | 7.0 | 7.4  |
| SHARK               | 8.3 | 7.3  | 6.7 | 7.4  |
| PURE SELECT         | 8.3 | 6.7  | 7.3 | 7.4  |
| DLFPS-AP/3018       | 7.7 | 6.7  | 7.7 | 7.3  |
| 777 (DLFPS-AP/3054) | 7.7 | 6.7  | 7.3 | 7.2  |
| GDE                 | 8.0 | 6.7  | 7.0 | 7.2  |
| DLFPS-AP/3056       | 7.3 | 7.3  | 7.0 | 7.2  |
| DLFPS-AP/3058       | 7.3 | 7.0  | 7.3 | 7.2  |
| BARRACUDA           | 7.7 | 6.7  | 6.7 | 7.0  |
| PIRANHA (DC-1)      | 7.7 | 6.7  | 6.7 | 7.0  |
| NIGHTLIFE           | 7.7 | 6.0  | 6.7 | 6.8  |
| ARMOR               | 7.3 | 6.0  | 6.7 | 6.7  |
| KINGDOM             | 8.0 | 6.0  | 5.7 | 6.6  |
| DECLARATION         | 6.7 | 6.7  | 6.0 | 6.4  |
| LUMINARY            | 6.7 | 6.0  | 6.7 | 6.4  |
| PENN A-1            | 6.7 | 6.0  | 6.3 | 6.3  |
| DLFPS-AP/3059       | 6.0 | 5.3  | 6.7 | 6.0  |
| PENNCROSS           | 4.7 | 2.3  | 4.0 | 3.7  |
| LSD VALUE           | 0.9 | 1.0  | 1.1 | 0.6  |
| C.V. (%)            | 7.7 | 10.1 | 9.8 | 9.2  |

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

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

TABLE 14. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | GA3 | IN1 | NC1 | OK1 | MEAN |
|---------------------|-----|-----|-----|-----|------|
| PST-ROPS            | 5.0 | 9.0 | 9.0 | 8.0 | 7.8  |
| DLFPS-AP/3018       | 5.0 | 8.0 | 8.7 | 7.7 | 7.3  |
| PURE SELECT         | 5.0 | 7.7 | 8.0 | 8.0 | 7.2  |
| 777 (DLFPS-AP/3054) | 5.0 | 8.3 | 8.3 | 6.7 | 7.1  |
| ARMOR               | 5.0 | 7.7 | 7.7 | 7.7 | 7.0  |
| DLFPS-AP/3058       | 5.0 | 7.3 | 8.0 | 7.7 | 7.0  |
| NIGHTLIFE           | 5.0 | 7.3 | 7.7 | 8.0 | 7.0  |
| V-8                 | 5.0 | 7.7 | 8.0 | 7.3 | 7.0  |
| SHARK               | 5.0 | 7.0 | 8.0 | 7.7 | 6.9  |
| L-93 XD             | 5.0 | 7.7 | 8.0 | 6.7 | 6.8  |
| DLFPS-AP/3056       | 5.0 | 7.0 | 8.0 | 7.3 | 6.8  |
| PIRANHA (DC-1)      | 5.0 | 7.3 | 8.0 | 7.0 | 6.8  |
| GDE                 | 5.0 | 6.7 | 8.0 | 7.3 | 6.8  |
| KINGDOM             | 5.0 | 7.0 | 7.7 | 7.3 | 6.8  |
| LUMINARY            | 4.7 | 6.7 | 7.7 | 7.0 | 6.5  |
| BARRACUDA           | 5.0 | 6.3 | 7.7 | 6.7 | 6.4  |
| DLFPS-AP/3059       | 5.0 | 6.3 | 7.7 | 6.7 | 6.4  |
| PENN A-1            | 5.0 | 5.7 | 7.7 | 7.3 | 6.4  |
| DECLARATION         | 5.0 | 5.7 | 7.0 | 6.3 | 6.0  |
| PENNCROSS           | 4.0 | 4.0 | 5.0 | 6.0 | 4.8  |
| LSD VALUE           | 0.2 | 0.9 | 1.0 | 0.9 | 0.4  |
| C.V. (%)            | 2.6 | 8.2 | 7.6 | 7.4 | 7.4  |

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

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

TABLE 15. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | GA3  | NC1 | NJ1  | OK1 | MEAN |
|---------------------|------|-----|------|-----|------|
| PST-ROPS            | 5.0  | 9.0 | 7.7  | 8.0 | 7.4  |
| L-93 XD             | 3.3  | 9.0 | 8.0  | 7.3 | 6.9  |
| PURE SELECT         | 4.7  | 9.0 | 6.7  | 7.3 | 6.9  |
| PIRANHA (DC-1)      | 4.0  | 8.7 | 7.7  | 7.0 | 6.8  |
| SHARK               | 3.7  | 9.0 | 7.0  | 7.7 | 6.8  |
| 777 (DLFPS-AP/3054) | 4.0  | 8.7 | 7.7  | 6.7 | 6.8  |
| DLFPS-AP/3018       | 3.3  | 9.0 | 7.7  | 7.0 | 6.8  |
| DLFPS-AP/3056       | 4.3  | 8.3 | 7.3  | 7.0 | 6.8  |
| DLFPS-AP/3058       | 4.0  | 9.0 | 8.0  | 6.0 | 6.8  |
| BARRACUDA           | 3.3  | 9.0 | 7.3  | 7.0 | 6.7  |
| V-8                 | 3.3  | 8.7 | 8.0  | 6.7 | 6.7  |
| ARMOR               | 4.3  | 9.0 | 5.7  | 6.7 | 6.4  |
| LUMINARY            | 4.7  | 8.7 | 6.3  | 6.0 | 6.4  |
| DLFPS-AP/3059       | 3.7  | 8.7 | 6.0  | 7.0 | 6.3  |
| GDE                 | 3.0  | 9.0 | 6.0  | 7.3 | 6.3  |
| NIGHTLIFE           | 4.3  | 8.7 | 5.3  | 6.7 | 6.3  |
| DECLARATION         | 3.0  | 8.3 | 6.7  | 6.7 | 6.2  |
| PENN A-1            | 3.0  | 8.7 | 4.7  | 6.7 | 5.8  |
| KINGDOM             | 3.3  | 8.7 | 3.0  | 6.7 | 5.4  |
| PENNCROSS           | 3.7  | 6.7 | 1.3  | 6.0 | 4.4  |
| LSD VALUE           | 0.8  | 0.7 | 1.2  | 0.8 | 0.4  |
| C.V. (%)            | 13.6 | 4.9 | 11.2 | 7.0 | 8.5  |

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

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

TABLE 16. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

| NAME                | NC1  | OK1  | MEAN |
|---------------------|------|------|------|
| DLFPS-AP/3018       | 84.3 | 95.7 | 90.0 |
| DLFPS-AP/3058       | 84.0 | 94.7 | 89.3 |
| L-93 XD             | 84.0 | 94.3 | 89.2 |
| 777 (DLFPS-AP/3054) | 80.7 | 97.0 | 88.8 |
| BARRACUDA           | 80.3 | 97.0 | 88.7 |
| DLFPS-AP/3056       | 81.0 | 96.0 | 88.5 |
| SHARK               | 80.3 | 96.7 | 88.5 |
| LUMINARY            | 81.0 | 95.7 | 88.3 |
| GDE                 | 80.7 | 95.7 | 88.2 |
| V-8                 | 80.7 | 95.7 | 88.2 |
| PIRANHA (DC-1)      | 80.3 | 95.7 | 88.0 |
| PST-ROPS            | 81.0 | 95.0 | 88.0 |
| DLFPS-AP/3059       | 80.3 | 95.3 | 87.8 |
| NIGHTLIFE           | 77.0 | 97.3 | 87.2 |
| PURE SELECT         | 80.7 | 92.7 | 86.7 |
| PENN A-1            | 77.3 | 96.0 | 86.7 |
| ARMOR               | 77.0 | 95.7 | 86.3 |
| DECLARATION         | 77.0 | 95.7 | 86.3 |
| KINGDOM             | 73.3 | 94.3 | 83.8 |
| PENNCROSS           | 63.0 | 95.3 | 79.2 |
| LSD VALUE           | 8.8  | 3.4  | 4.7  |
| C.V. (%)            | 6.9  | 2.2  | 4.7  |

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

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

TABLE 17. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

| NAME                | NC1  | OK1  | MEAN |
|---------------------|------|------|------|
| BARRACUDA           | 99.0 | 99.0 | 99.0 |
| DLFPS-AP/3058       | 99.0 | 99.0 | 99.0 |
| KINGDOM             | 99.0 | 99.0 | 99.0 |
| PENN A-1            | 99.0 | 99.0 | 99.0 |
| PURE SELECT         | 99.0 | 99.0 | 99.0 |
| SHARK               | 99.0 | 99.0 | 99.0 |
| V-8                 | 99.0 | 99.0 | 99.0 |
| DECLARATION         | 99.0 | 98.7 | 98.8 |
| DLFPS-AP/3059       | 99.0 | 98.7 | 98.8 |
| NIGHTLIFE           | 99.0 | 98.7 | 98.8 |
| DLFPS-AP/3056       | 99.0 | 98.3 | 98.7 |
| LUMINARY            | 99.0 | 98.3 | 98.7 |
| GDE                 | 99.0 | 98.0 | 98.5 |
| ARMOR               | 99.0 | 97.7 | 98.3 |
| L-93 XD             | 99.0 | 97.7 | 98.3 |
| PIRANHA (DC-1)      | 99.0 | 96.3 | 97.7 |
| PENNCROSS           | 95.7 | 99.0 | 97.3 |
| PST-ROPS            | 99.0 | 95.7 | 97.3 |
| DLFPS-AP/3018       | 99.0 | 94.0 | 96.5 |
| 777 (DLFPS-AP/3054) | 99.0 | 89.3 | 94.2 |
| LSD VALUE           | 0.4  | 3.9  | 2.0  |
| C.V. (%)            | 0.3  | 2.5  | 1.8  |

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

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

TABLE 18. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

| NAME                | NC1  | OK1  | MEAN |
|---------------------|------|------|------|
| 777 (DLFPS-AP/3054) | 99.0 | 99.0 | 99.0 |
| ARMOR               | 99.0 | 99.0 | 99.0 |
| BARRACUDA           | 99.0 | 99.0 | 99.0 |
| DECLARATION         | 99.0 | 99.0 | 99.0 |
| DLFPS-AP/3018       | 99.0 | 99.0 | 99.0 |
| DLFPS-AP/3056       | 99.0 | 99.0 | 99.0 |
| DLFPS-AP/3058       | 99.0 | 99.0 | 99.0 |
| DLFPS-AP/3059       | 99.0 | 99.0 | 99.0 |
| GDE                 | 99.0 | 99.0 | 99.0 |
| KINGDOM             | 99.0 | 99.0 | 99.0 |
| L-93 XD             | 99.0 | 99.0 | 99.0 |
| LUMINARY            | 99.0 | 99.0 | 99.0 |
| NIGHTLIFE           | 99.0 | 99.0 | 99.0 |
| PENN A-1            | 99.0 | 99.0 | 99.0 |
| PIRANHA (DC-1)      | 99.0 | 99.0 | 99.0 |
| PURE SELECT         | 99.0 | 99.0 | 99.0 |
| V-8                 | 99.0 | 99.0 | 99.0 |
| PST-ROPS            | 99.0 | 98.7 | 98.8 |
| SHARK               | 99.0 | 98.3 | 98.7 |
| PENNCROSS           | 97.7 | 99.0 | 98.3 |
| LSD VALUE           | 0.2  | 0.3  | 0.2  |
| C.V. (%)            | 0.1  | 0.2  | 0.2  |

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

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

TABLE 19. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | NC1 | OK1 | MEAN |
|---------------------|-----|-----|------|
| BARRACUDA           | 5.3 | 7.0 | 6.2  |
| DLFPS-AP/3056       | 5.0 | 7.0 | 6.0  |
| 777 (DLFPS-AP/3054) | 5.7 | 6.0 | 5.8  |
| GDE                 | 5.3 | 6.3 | 5.8  |
| DLFPS-AP/3018       | 5.7 | 5.7 | 5.7  |
| DECLARATION         | 5.0 | 6.3 | 5.7  |
| DLFPS-AP/3059       | 5.0 | 6.3 | 5.7  |
| LUMINARY            | 5.3 | 6.0 | 5.7  |
| DLFPS-AP/3058       | 5.3 | 5.7 | 5.5  |
| PIRANHA (DC-1)      | 5.0 | 6.0 | 5.5  |
| SHARK               | 5.0 | 6.0 | 5.5  |
| V-8                 | 5.0 | 6.0 | 5.5  |
| PENN A-1            | 4.7 | 5.7 | 5.2  |
| L-93 XD             | 5.3 | 5.0 | 5.2  |
| PST-ROPS            | 5.3 | 5.0 | 5.2  |
| ARMOR               | 5.3 | 4.7 | 5.0  |
| PURE SELECT         | 5.0 | 5.0 | 5.0  |
| NIGHTLIFE           | 4.7 | 4.7 | 4.7  |
| PENNCROSS           | 3.7 | 5.7 | 4.7  |
| KINGDOM             | 4.3 | 4.0 | 4.2  |
| LSD VALUE           | 0.7 | 0.8 | 0.5  |
| C.V. (%)            | 9.2 | 8.8 | 9.0  |

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

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

TABLE 20. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

| DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ |      |     |     |      |      |      |      |      |      |
|------------------------------------------|------|-----|-----|------|------|------|------|------|------|
| NAME                                     | KS1  | KY1 | MI1 | MN1  | MO1  | NC1  | NJ1  | VA1  | MEAN |
| DECLARATION                              | 7.7  | 9.0 | 9.0 | 8.0  | 9.0  | 7.7  | 8.3  | 2.3  | 7.6  |
| GDE                                      | 8.7  | 8.0 | 9.0 | 7.0  | 8.3  | 7.7  | 7.0  | 2.3  | 7.3  |
| L-93 XD                                  | 8.0  | 8.3 | 8.7 | 7.0  | 8.7  | 8.7  | 6.3  | 2.3  | 7.3  |
| DLFPS-AP/3058                            | 8.3  | 8.3 | 8.7 | 7.3  | 8.0  | 7.7  | 7.0  | 2.3  | 7.2  |
| LUMINARY                                 | 8.7  | 8.3 | 8.7 | 6.7  | 8.0  | 7.7  | 7.3  | 2.3  | 7.2  |
| BARRACUDA                                | 7.0  | 7.7 | 8.3 | 7.3  | 8.0  | 8.0  | 7.7  | 2.7  | 7.1  |
| PIRANHA (DC-1)                           | 6.7  | 8.3 | 8.3 | 7.0  | 7.7  | 8.7  | 6.3  | 2.7  | 7.0  |
| DLFPS-AP/3018                            | 8.3  | 8.0 | 8.0 | 6.3  | 7.3  | 9.0  | 5.3  | 3.0  | 6.9  |
| PENN A-1                                 | 8.0  | 6.7 | 8.3 | 6.0  | 7.7  | 6.3  | 7.7  | 4.3  | 6.9  |
| V-8                                      | 7.3  | 7.7 | 8.7 | 5.3  | 7.7  | 8.0  | 7.3  | 2.7  | 6.8  |
| PENNCROSS                                | 6.3  | 7.7 | 8.3 | 6.7  | 6.3  | 7.0  | 7.7  | 3.0  | 6.6  |
| DLFPS-AP/3056                            | 6.7  | 8.0 | 8.3 | 5.3  | 7.0  | 8.0  | 6.3  | 3.0  | 6.6  |
| DLFPS-AP/3059                            | 5.7  | 7.0 | 8.0 | 5.7  | 7.3  | 8.0  | 6.7  | 3.7  | 6.5  |
| KINGDOM                                  | 6.3  | 7.0 | 7.0 | 4.3  | 6.0  | 6.3  | 6.0  | 4.7  | 6.0  |
| 777 (DLFPS-AP/3054)                      | 5.3  | 7.3 | 7.7 | 4.7  | 5.7  | 8.0  | 5.3  | 3.0  | 5.9  |
| PURE SELECT                              | 5.0  | 6.0 | 7.7 | 3.3  | 6.0  | 7.0  | 5.3  | 4.7  | 5.6  |
| NIGHTLIFE                                | 5.3  | 6.7 | 6.7 | 3.7  | 6.0  | 6.3  | 5.3  | 3.7  | 5.5  |
| PST-ROPS                                 | 7.0  | 5.0 | 7.0 | 4.0  | 4.3  | 6.7  | 4.3  | 4.0  | 5.3  |
| SHARK                                    | 6.3  | 3.3 | 7.3 | 3.7  | 6.0  | 6.0  | 5.0  | 3.7  | 5.2  |
| ARMOR                                    | 2.7  | 2.3 | 5.3 | 1.0  | 4.3  | 3.3  | 5.0  | 5.7  | 3.7  |
| LSD VALUE                                | 2.2  | 1.0 | 0.9 | 1.7  | 2.0  | 1.2  | 1.3  | 1.3  | 0.5  |
| C.V. (%)                                 | 20.1 | 9.0 | 6.7 | 19.6 | 17.8 | 10.0 | 12.7 | 25.4 | 14.7 |

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

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

TABLE 21. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

| BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ |      |      |      |      |
|------------------------------------------|------|------|------|------|
| NAME                                     | KY1  | MO1  | NJ1  | MEAN |
| LUMINARY                                 | 6.7  | 8.3  | 9.0  | 8.0  |
| PST-ROPS                                 | 6.7  | 8.7  | 8.7  | 8.0  |
| PIRANHA (DC-1)                           | 6.0  | 8.7  | 8.7  | 7.8  |
| PURE SELECT                              | 6.7  | 7.3  | 8.0  | 7.3  |
| BARRACUDA                                | 5.7  | 7.0  | 9.0  | 7.2  |
| 777 (DLFPS-AP/3054)                      | 6.0  | 8.3  | 7.0  | 7.1  |
| GDE                                      | 5.7  | 7.0  | 8.3  | 7.0  |
| DLFPS-AP/3059                            | 4.7  | 7.7  | 8.3  | 6.9  |
| ARMOR                                    | 5.7  | 6.0  | 8.3  | 6.7  |
| KINGDOM                                  | 6.7  | 7.0  | 6.3  | 6.7  |
| L-93 XD                                  | 4.3  | 7.3  | 7.7  | 6.4  |
| DLFPS-AP/3056                            | 5.0  | 6.3  | 7.7  | 6.3  |
| NIGHTLIFE                                | 5.3  | 7.0  | 6.7  | 6.3  |
| SHARK                                    | 4.7  | 5.7  | 8.7  | 6.3  |
| DECLARATION                              | 5.0  | 6.3  | 7.3  | 6.2  |
| PENNCROSS                                | 7.0  | 7.0  | 4.3  | 6.1  |
| DLFPS-AP/3018                            | 4.7  | 5.3  | 8.0  | 6.0  |
| DLFPS-AP/3058                            | 5.0  | 6.0  | 6.3  | 5.8  |
| V-8                                      | 4.0  | 5.3  | 7.7  | 5.7  |
| PENN A-1                                 | 3.7  | 4.0  | 6.7  | 4.8  |
| LSD VALUE                                | 1.8  | 2.7  | 2.4  | 1.3  |
| C.V. (%)                                 | 20.7 | 24.3 | 19.4 | 21.7 |

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

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

TABLE 22. ANTHRACNOSE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/

| NAME                | NC1  | NJ1  | MEAN |
|---------------------|------|------|------|
| DLFPS-AP/3018       | 7.3  | 9.0  | 8.2  |
| L-93 XD             | 6.7  | 9.0  | 7.8  |
| DLFPS-AP/3058       | 6.7  | 8.3  | 7.5  |
| LUMINARY            | 6.0  | 9.0  | 7.5  |
| 777 (DLFPS-AP/3054) | 5.7  | 9.0  | 7.3  |
| PIRANHA (DC-1)      | 5.7  | 9.0  | 7.3  |
| BARRACUDA           | 5.3  | 8.7  | 7.0  |
| PST-ROPS            | 5.0  | 9.0  | 7.0  |
| SHARK               | 5.0  | 9.0  | 7.0  |
| V-8                 | 6.7  | 7.3  | 7.0  |
| GDE                 | 6.0  | 7.3  | 6.7  |
| ARMOR               | 6.3  | 6.3  | 6.3  |
| PURE SELECT         | 3.7  | 9.0  | 6.3  |
| DLFPS-AP/3059       | 5.3  | 6.7  | 6.0  |
| DLFPS-AP/3056       | 2.7  | 8.0  | 5.3  |
| NIGHTLIFE           | 4.7  | 5.0  | 4.8  |
| KINGDOM             | 6.0  | 3.3  | 4.7  |
| DECLARATION         | 5.7  | 3.0  | 4.3  |
| PENN A-1            | 5.3  | 3.0  | 4.2  |
| PENNCROSS           | 6.0  | 1.0  | 3.5  |
| LSD VALUE           | 1.6  | 1.7  | 1.2  |
| C.V. (%)            | 18.2 | 15.1 | 16.5 |

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

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

TABLE 23. COPPER SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2016 DATA

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

| NAME                | M01  |
|---------------------|------|
| PENNCROSS           | 7.7  |
| GDE                 | 6.7  |
| 777 (DLFPS-AP/3054) | 6.3  |
| ARMOR               | 6.3  |
| PENN A-1            | 6.3  |
| PIRANHA (DC-1)      | 6.3  |
| DECLARATION         | 5.0  |
| DLFPS-AP/3056       | 5.0  |
| DLFPS-AP/3059       | 5.0  |
| KINGDOM             | 5.0  |
| DLFPS-AP/3018       | 4.7  |
| PST-ROPS            | 4.7  |
| BARRACUDA           | 4.3  |
| DLFPS-AP/3058       | 4.3  |
| L-93 XD             | 4.3  |
| V-8                 | 4.3  |
| LUMINARY            | 4.0  |
| NIGHTLIFE           | 4.0  |
| PURE SELECT         | 3.7  |
| SHARK               | 3.7  |
| LSD VALUE           | 2.9  |
| C.V. (%)            | 35.4 |

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

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

TABLE 24. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT MANHATTAN, KS 1/  
2016 DATA

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

| NAME                | SEP_01 | SEP_23 | MEAN |
|---------------------|--------|--------|------|
| LUMINARY            | 8.7    | 9.0    | 8.8  |
| GDE                 | 8.7    | 8.7    | 8.7  |
| DLFPS-AP/3018       | 8.3    | 8.3    | 8.3  |
| DLFPS-AP/3058       | 8.3    | 8.3    | 8.3  |
| L-93 XD             | 8.0    | 8.7    | 8.3  |
| DECLARATION         | 7.7    | 8.7    | 8.2  |
| PENN A-1            | 8.0    | 8.3    | 8.2  |
| BARRACUDA           | 7.0    | 8.0    | 7.5  |
| V-8                 | 7.3    | 7.3    | 7.3  |
| PST-ROPS            | 7.0    | 7.3    | 7.2  |
| KINGDOM             | 6.3    | 7.7    | 7.0  |
| DLFPS-AP/3056       | 6.7    | 6.7    | 6.7  |
| PENNCROSS           | 6.3    | 7.0    | 6.7  |
| PIRANHA (DC-1)      | 6.7    | 6.7    | 6.7  |
| SHARK               | 6.3    | 6.3    | 6.3  |
| 777 (DLFPS-AP/3054) | 5.3    | 6.3    | 5.8  |
| DLFPS-AP/3059       | 5.7    | 6.0    | 5.8  |
| PURE SELECT         | 5.0    | 6.0    | 5.5  |
| NIGHTLIFE           | 5.3    | 5.0    | 5.2  |
| ARMOR               | 2.7    | 3.3    | 3.0  |
| LSD VALUE           | 2.1    | 2.1    | 2.0  |
| C.V. (%)            | 18.5   | 17.2   | 17.1 |

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

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

TABLE 25. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT LEXINGTON, KY 1/  
2016 DATA

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

| NAME                | JUNE | JULY | MEAN |
|---------------------|------|------|------|
| DECLARATION         | 9.0  | 7.0  | 8.0  |
| L-93 XD             | 8.3  | 6.7  | 7.5  |
| GDE                 | 8.0  | 6.7  | 7.3  |
| BARRACUDA           | 7.7  | 6.3  | 7.0  |
| DLFPS-AP/3058       | 8.3  | 5.7  | 7.0  |
| LUMINARY            | 8.3  | 5.7  | 7.0  |
| PIRANHA (DC-1)      | 8.3  | 5.7  | 7.0  |
| DLFPS-AP/3018       | 8.0  | 5.7  | 6.8  |
| PENNCROSS           | 7.7  | 6.0  | 6.8  |
| V-8                 | 7.7  | 5.7  | 6.7  |
| DLFPS-AP/3056       | 8.0  | 4.7  | 6.3  |
| 777 (DLFPS-AP/3054) | 7.3  | 4.3  | 5.8  |
| KINGDOM             | 7.0  | 4.3  | 5.7  |
| PENN A-1            | 6.7  | 4.7  | 5.7  |
| DLFPS-AP/3059       | 7.0  | 4.0  | 5.5  |
| NIGHTLIFE           | 6.7  | 4.3  | 5.5  |
| PURE SELECT         | 6.0  | 3.3  | 4.7  |
| PST-ROPS            | 5.0  | 3.7  | 4.3  |
| SHARK               | 3.3  | 4.3  | 3.8  |
| ARMOR               | 2.3  | 4.3  | 3.3  |
| LSD VALUE           | 1.0  | 1.5  | 1.0  |
| C.V. (%)            | 9.2  | 17.5 | 11.1 |

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

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

TABLE 26. DOLLAR SPOT COUNTS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT WEST LAFAYETTE, IN 1/  
2016 DATA

| DOLLAR SPOT COUNTS PER PLOT 2/ |      |        |      |
|--------------------------------|------|--------|------|
| NAME                           | JUNE | AUGUST | MEAN |
| ARMOR                          | 36.7 | 8.3    | 22.5 |
| SHARK                          | 14.0 | 5.3    | 9.7  |
| NIGHTLIFE                      | 10.0 | 6.3    | 8.2  |
| PST-ROPS                       | 7.7  | 5.3    | 6.5  |
| KINGDOM                        | 9.3  | 3.3    | 6.3  |
| PURE SELECT                    | 9.0  | 2.7    | 5.8  |
| V-8                            | 7.3  | 4.3    | 5.8  |
| 777 (DLFPS-AP/3054)            | 3.3  | 5.7    | 4.5  |
| PENN A-1                       | 8.3  | 0.3    | 4.3  |
| LUMINARY                       | 3.7  | 3.3    | 3.5  |
| DLFPS-AP/3059                  | 4.3  | 2.3    | 3.3  |
| L-93 XD                        | 0.3  | 6.3    | 3.3  |
| PENNCROSS                      | 5.7  | 0.7    | 3.2  |
| DLFPS-AP/3056                  | 4.7  | 1.0    | 2.8  |
| BARRACUDA                      | 2.3  | 3.0    | 2.7  |
| DLFPS-AP/3018                  | 1.7  | 3.7    | 2.7  |
| PIRANHA (DC-1)                 | 1.0  | 3.7    | 2.3  |
| DLFPS-AP/3058                  | 1.7  | 2.7    | 2.2  |
| GDE                            | 1.0  | 2.0    | 1.5  |
| DECLARATION                    | 1.3  | 0.7    | 1.0  |
| LSD VALUE                      | 8.4  | 6.1    | 3.6  |
| C.V. (%)                       | 78.7 | 77.0   | 45.3 |

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

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

TABLE 27. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT EAST LANSING, MI 1/  
2016 DATA

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

| NAME                | AUGUST | SEPTEMBER | OCTOBER | MEAN |
|---------------------|--------|-----------|---------|------|
| DECLARATION         | 9.0    | 9.0       | 8.3     | 8.8  |
| GDE                 | 9.0    | 9.0       | 8.3     | 8.8  |
| PIRANHA (DC-1)      | 8.3    | 9.0       | 8.3     | 8.6  |
| BARRACUDA           | 8.3    | 9.0       | 7.7     | 8.3  |
| DLFPS-AP/3058       | 8.7    | 9.0       | 7.3     | 8.3  |
| L-93 XD             | 8.7    | 9.0       | 7.3     | 8.3  |
| V-8                 | 8.7    | 8.3       | 8.0     | 8.3  |
| DLFPS-AP/3018       | 8.0    | 8.7       | 7.0     | 7.9  |
| DLFPS-AP/3059       | 8.0    | 8.3       | 7.3     | 7.9  |
| LUMINARY            | 8.7    | 9.0       | 6.0     | 7.9  |
| DLFPS-AP/3056       | 8.3    | 8.3       | 6.7     | 7.8  |
| PENN A-1            | 8.3    | 8.0       | 7.0     | 7.8  |
| PENNCROSS           | 8.3    | 7.7       | 7.0     | 7.7  |
| PURE SELECT         | 7.7    | 8.0       | 7.3     | 7.7  |
| 777 (DLFPS-AP/3054) | 7.7    | 8.0       | 6.7     | 7.4  |
| PST-ROPS            | 7.0    | 8.3       | 6.3     | 7.2  |
| SHARK               | 7.3    | 7.3       | 6.0     | 6.9  |
| NIGHTLIFE           | 6.7    | 6.3       | 5.7     | 6.2  |
| KINGDOM             | 7.0    | 6.0       | 5.3     | 6.1  |
| ARMOR               | 5.3    | 5.0       | 5.0     | 5.1  |
| LSD VALUE           | 0.8    | 0.8       | 2.6     | 0.8  |
| C.V. (%)            | 6.8    | 6.6       | 17.2    | 6.7  |

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

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

TABLE 28. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT NORTH BRUNSWICK, NJ 1/  
2016 DATA

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

| NAME                | AUGUST | SEPTEMBER | OCTOBER | MEAN |
|---------------------|--------|-----------|---------|------|
| DECLARATION         | 8.3    | 9.0       | 8.7     | 8.7  |
| PENNCROSS           | 7.7    | 8.0       | 8.0     | 7.9  |
| BARRACUDA           | 7.7    | 7.3       | 6.3     | 7.1  |
| PENN A-1            | 7.7    | 7.3       | 6.3     | 7.1  |
| DLFPS-AP/3058       | 7.0    | 6.3       | 6.7     | 6.7  |
| LUMINARY            | 7.3    | 6.3       | 6.3     | 6.7  |
| GDE                 | 7.0    | 5.7       | 6.7     | 6.4  |
| V-8                 | 7.3    | 6.3       | 5.7     | 6.4  |
| DLFPS-AP/3059       | 6.7    | 6.3       | 5.7     | 6.2  |
| L-93 XD             | 6.3    | 5.3       | 6.3     | 6.0  |
| KINGDOM             | 6.0    | 5.7       | 5.7     | 5.8  |
| PIRANHA (DC-1)      | 6.3    | 5.3       | 5.0     | 5.6  |
| DLFPS-AP/3056       | 6.3    | 5.0       | 5.0     | 5.4  |
| DLFPS-AP/3018       | 5.3    | 4.3       | 4.7     | 4.8  |
| NIGHTLIFE           | 5.3    | 4.7       | 4.3     | 4.8  |
| 777 (DLFPS-AP/3054) | 5.3    | 4.0       | 4.3     | 4.6  |
| SHARK               | 5.0    | 4.0       | 3.7     | 4.2  |
| PURE SELECT         | 5.3    | 4.0       | 3.0     | 4.1  |
| ARMOR               | 5.0    | 4.0       | 2.7     | 3.9  |
| PST-ROPS            | 4.3    | 2.0       | 2.7     | 3.0  |
| LSD VALUE           | 1.3    | 1.6       | 1.6     | 1.2  |
| C.V. (%)            | 12.8   | 18.3      | 19.1    | 13.6 |

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

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

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS  
GROWN ON A GREEN  
2016 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

| NAME                | QUALITY<br>MEAN 1/ | MAXIMUM<br>IN TOP 25% 2/ |
|---------------------|--------------------|--------------------------|
| 777 (DLFPS-AP/3054) | 6.3                | 38.5                     |
| ARMOR               | 5.5                | 15.4                     |
| BARRACUDA           | 6.2                | 23.1                     |
| DECLARATION         | 5.8                | 0.0                      |
| DLFPS-AP/3018       | 6.3                | 46.2                     |
| DLFPS-AP/3056       | 6.2                | 23.1                     |
| DLFPS-AP/3058       | 6.4                | 23.1                     |
| DLFPS-AP/3059       | 5.7                | 0.0                      |
| GDE                 | 6.2                | 30.8                     |
| KINGDOM             | 5.8                | 15.4                     |
| L-93 XD             | 6.3                | 38.5                     |
| LUMINARY            | 6.1                | 23.1                     |
| NIGHTLIFE           | 6.0                | 23.1                     |
| PENN A-1            | 5.7                | 0.0                      |
| PENNCROSS           | 4.1                | 0.0                      |
| PIRANHA (DC-1)      | 6.5                | 61.5                     |
| PST-ROPS            | 6.4                | 46.2                     |
| PURE SELECT         | 6.3                | 30.8                     |
| SHARK               | 6.0                | 0.0                      |
| V-8                 | 6.1                | 23.1                     |
| LSD VALUE           | 0.2                |                          |
| C.V. (%)            | 7.6                |                          |

\*/ 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).

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

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25%: THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.