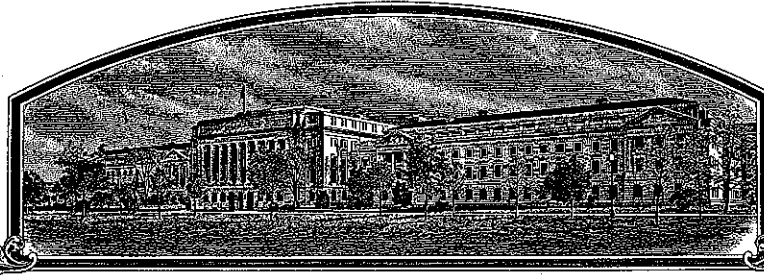


No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

J. R. Simplot Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THEREOF IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REBLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

'Perfection'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifteenth day of April, in the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

| | | | |
|--|--|---|--|
| 1. NAME OF OWNER J.R. Simplot Company <i>(BT: 10/1/2007)</i> | | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME J-1515, 93-1515 | 3. VARIETY NAME Perfection |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) W. 5300 Riverbend Ave. Post Falls, ID 83854 | | 5. TELEPHONE (include area code) 208-773-7581 | FOR OFFICIAL USE ONLY PVPO NUMBER 200300008 |
| | | 6. FAX (include area code) 208-773-4846 | |
| 7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation | 8. IF INCORPORATED, GIVE STATE OF INCORPORATION Nevada | 9. DATE OF INCORPORATION June 28, 1955 | FILING DATE 10/15/2002 |

| | | |
|--|--|---|
| 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) A. Douglas Brede W. 5300 Riverbend Ave. Post Falls, ID 83854 | | FILING AND EXAMINATION FEES: \$ 2,705.00 DATE 10/15/2002 CERTIFICATION FEE: \$ 768.00 DATE 3/11/2008 |
|--|--|---|

| | | | |
|--|--|--|--|
| 11. TELEPHONE (include area code) 208-773-7581 | 12. FAX (include area code) 208-773-4846 | 13. E-MAIL dbrede@simplot.com | 14. CROP KIND (Common Name) Kentucky bluegrass |
| 15. GENUS AND SPECIES NAME OF CROP Poa pratensis | | 16. FAMILY NAME (Botanical) Graminae | 17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

| | |
|--|---|
| 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) | 19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(s) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22) |
| | 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED |
| | 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. <i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i> |

| | |
|---|--|
| 22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) | 23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) |
|---|--|

24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

| | |
|--|-----------------------------|
| SIGNATURE OF OWNER A. Douglas Brede | SIGNATURE OF OWNER |
| NAME (Please print or type) A. Douglas Brede | NAME (Please print or type) |
| CAPACITY OR TITLE Research Director | DATE 5 Oct. 02 |
| CAPACITY OR TITLE | DATE |

Exhibit 16A**Origin and Breeding History**
Perfection Kentucky Bluegrass

'Perfection' Kentucky bluegrass originated as a highly apomictic, single-plant selection from hybrid cross number 89-1037, made in the field in July, 1989. Pollen from the cultivar 'Midnight' Kentucky bluegrass was used to pollinate plants of 'Limousine.' Seed harvested from the Limousine mother plants was individually sown into cells of greenhouse flats during the spring of 1992. The resulting plants were grown in a spaced-plant field nursery of 40,701 plants in May. Offspring with characteristics dissimilar to Limousine, the female parent, were flagged during maturation in spring of 1993. Plant number 93-1515 (the experimental designation for Perfection) was identified as being different from Limousine by its seedhead characteristics. It produced 23.8 grams of seed from a single spaced plant, which is slightly more than typical for a bluegrass spaced plant in North Idaho.

Seed harvested from experimental 93-1515 was tested in Jacklin turf quality trials in Idaho in 1993. It was tested in Ohio in 1996, New Jersey in 1994, Maryland in 1994, and in national (NTEP) trials in 2000. It was evaluated in Idaho at both 1¼ inch and ½ inch mowing, and in Maryland at 2 inch and 3/8 inch mowing. Its seed yielding ability was evaluated in a replicated yield trial in Post Falls in 1998 and in a small production block near Connell, WA, seeded in 1998. Perfection was selected for release based on a combination of its US East Coast turf performance, combined with reliable seed yield in the Pacific Northwest. First breeder seed was produced in 1998 and first certified seed in 2001, although none was sold until release in Fall 2002.

Progeny trials were conducted in spaced-plant nurseries, established near Post Falls, ID, in May 1998, to determine the level of apomixis. Of 1230 J-1515 plants, 3.7% were variants in the vegetative (pre-heading) stage, 1.8% were heading maturity variants, 1.2% seedhead variants, 0% miniature plants, and 0% were headless plants. J-1515 averaged 94% apomictic, with a 95% confidence interval from 92 to 97%. In commercial seed production, apomixis will typically vary from 90 to 99% depending upon weather, location, and year.

Perfection Kentucky bluegrass is a stable and uniform cultivar. Over seven years of commercial seed production, all seedlots evaluated have produced turf of comparable quality and acceptable uniformity. Aberrant progeny (as described in the previous paragraph) are rogued from breeders, foundation, and registered fields to insure continued uniformity and stability, but they will continue to occur in every generation.

Exhibit 16 B**Statement of Distinctness**
Perfection Kentucky Bluegrass

'Perfection' is a dark green, medium-tall strawed Kentucky bluegrass. Perfection can be distinguished from all other varieties by the combination of spaced-plant, seed, and turf characteristics described in Tables 1 through 10. Perfection most closely resembles 'Quantum Leap' Kentucky bluegrass but differs from it in the following characters:

1. Perfection has a significantly longer culm length than Quantum Leap (66.7 cm for Perfection vs. 60.0 cm for Quantum Leap in 1999, significant at 0.001 level; 53.9 cm for Perfection vs. 51.2 cm for Quantum Leap in 2000, significant at 0.001 level) (Table 1).
2. Perfection has a significantly longer length-to-width ratio of its second subtending leaf than Quantum Leap (ratio of 25.6:1 for Perfection vs. 21.5:1 for Quantum Leap in 1999, significant at 0.001 level; ratio of 52.8:1 for Perfection vs. 37.4:1 for Quantum Leap in 2000, significant at 0.001 level) (Table 3).
3. Perfection has a significantly longer length of its lowest panicle internode than Quantum Leap (2.21 cm for Perfection vs. 2.05 cm for Quantum Leap in 1999, significant at 0.001 level; 1.66 cm for Perfection vs. 1.44 cm for Quantum Leap in 2000, significant at 0.001 level) (Table 4).
4. Perfection has a significantly longer culm length measured from the ground to the flagleaf node than Quantum Leap (26.8 cm for Perfection vs. 20.5 cm for Quantum Leap in 1999, significant at 0.001 level; 31.2 cm for Perfection vs. 28.5 cm for Quantum Leap in 2000, significant at 0.001 level) (Table 5).
5. Perfection has a significantly earlier reproductive maturity than Quantum Leap on June 7th in unmowed seed production plots (a rating of 6.6 for Perfection vs. 5.4 for Quantum Leap in 1999, significant at 0.05 level; a rating of 6.7 for Perfection vs. 6 for Quantum Leap in 2000, significant at 0.05 level) (Table 7).
6. Perfection had significantly better turfgrass quality across the locations of IA1, IL2, KY1, MN1, MO1, NC1, NE2, NJ2, OK1, PA1, RI1, VA1, WA1, and WA3 in National testing, representing the "Schedule B" with 1-2 inch mowing, 3-4 lbs. nitrogen per 1000 ft² per year, and irrigation to prevent dormancy (rating of 6.2 for Perfection versus 5.9 for Quantum Leap, significant at 0.05 level) (Table 8, NTEP 2001 results).
7. Perfection had significantly better turfgrass quality across the locations of MA1, ME1, NJ1, NJ2, NY1, PA1, and RI1 in National testing, representing the "Northeast" region (rating of 6.8 for Perfection versus 6.4 for Quantum Leap, significant at 0.05 level) (Table 9, NTEP 2001 results).
8. Perfection had significantly better seedling vigor across the locations of CO1, IA1, IL2, IL3, MA1, MD1, MI1, MN1, MO1, NE1, NE2, NJ1, NJ2, NY1, PA1, SD1, WA3, and WY1 in National testing (rating of 5.6 for Perfection versus 5.1 for Quantum Leap, significant at 0.05 level) (Table 10, NTEP 2001 results).

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 PLANT VARIETY PROTECTION OFFICE
 BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS (*Poa* spp)

Exhibit 16C
 (Bluegrass)

| | |
|---|--|
| NAME OF APPLICANT(S) J.R. Simplot Company | VARIETY NAME OR TEMPORARY DESIGNATION Perfection |
| ADDRESS (Street and no., or R.F.D. No., City State and ZIP Code) W. 5300 Riverbend Ave. Post Falls, Idaho 83854 | FOR OFFICIAL USE ONLY PVPO NUMBER #200300008 |

Place the appropriate number that describes the Varietal character of this variety in the boxes below. Use leading zeros when necessary (e.g., 089 or 09). Characteristics described including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used; 1-9 rating scale, where mentioned. Describe location of test area, conditions and number of plants used: Rathdrum, ID, 20-60 plants/cultivar x 3 reps: The symbol "▲" indicates decimal. Location of the test area: Farm near Rathdrum, Idaho

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

| | | | | |
|---|-------------------------|------------------------|------------------------|--------------------------|
| 2 | 1= <i>Poa compressa</i> | 2= <i>P. pratensis</i> | 3= <i>P. trivialis</i> | 4= Other (specify) _____ |
| | Chromosome Number | | | |

2. ADAPTATION: (0= Not tested; 1= Not Adapted; 2= Adapted)

| | | | | | | | |
|---|--------------|---|-------------------|---|----------------------|---|-----------------------|
| 2 | Northeast | 2 | Transitional zone | 1 | Southeast | 2 | North Central |
| 2 | Pacific N.W. | 2 | Intermountain | 2 | Southwest (CA., AZ.) | | Other (specify) _____ |

3. Maturity: (At first anthesis): Give test area Rathdrum, ID

★ 5 Maturity Class:

1= Very Early 2 = Early (Delta, Mystic) 3= Medium Early (Fylking, Nugget)
 4= Medium Late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi) 6 = Very Late (Pacific)

June 1 Date of First Anthesis

| | | | | | | | | |
|------------------|--|---|-----------------------------|--|----------|-----------|-----------|------------------|
| | | 3 | Number of days earlier than | ★ 11 | 1=Nugget | 2=Fylking | 3=Delta | 10= Quantum Leap |
| Maturity same as | | | | ★ 10 | 4=Merion | 5=Newport | 6=Baron | 11=Midnight |
| | | 5 | Number of days later than | ★ 6 | 7=Mystic | 8=Sabre | 9=Reubens | 12=Absolute |

4. PLANT HEIGHT: (At maturity; Average of longest shoot of 10 plants from soil surface to top of panicle) Test area Rathdrum, Idaho

★ 4

1= Short (Nugget) 2 = Medium short (Baron, Fylking, Mystic)
 3= Medium Tall (Merion, Adelphi) 4= Tall (Delta) 5 = Very Tall

★ 6 6▲ 7 cm Height

| | | | | | | | | |
|----------------|----|---|-----------------|--|----------|-----------|-----------|------------------|
| | ▲ | | cm Shorter than | ★ | 1=Nugget | 2=Fylking | 3=Delta | 10= Quantum Leap |
| Height same as | | | | ★ 12 | 4=Merion | 5=Newport | 6=Baron | 11=Midnight |
| 2 | 6▲ | 7 | cm Taller than | ★ 6 | 7=Mystic | 8=Sabre | 9=Reubens | 12=Absolute |

5. GROWTH HABIT:

★ 2 3 = Prostrate (Nugget) 2 = Semi-prostrate (Merion) 1 = Erect (Delta)

 2 4 cm Amount of spread by rhizomes in 1 year (give test area Rathdrum, Idaho.)

6. LEAF BLADE:

- ☆ 4 Green Color
 - 1 = Light Green (Mystic)
 - 2 = Medium Green (Fylking, Bonnieblue)
 - 3 = Moderately dk. green (Merion, Adelphi)
 - 4 = Very dk. green (Nugget, Glade, Enmundi)
- ☆ 3 Bluegreen Color
 - 1 = Not bluegreen (Mystic, Touchdown, Parade)
 - 2 = Moderately bluegreen (Merion, A-34)
 - 3 = Bluegreen (Nugget, Enmundi, Adelphi)
 - 4 = Strongly bluegreen (Majestic)
- 1 Winter color
 - 1 = Light green
 - 2 = Dark green
 - 3 = Light purple
 - 4 = Dark purple
 - 5 = Not purple
 - 6 = Not green or purple

- ☆ 1 Hairs upper side:
 - 1 = Absent (Nugget)
 - 2 = Sparse (Merion)
 - 3 = Dense (Park)
- 1 Hairs lower side:
 - 1 = Absent (Fylking, Merion)
 - 2 = Sparse
 - 3 = Dense (Nugget)
- 2 Luster upper side:
 - 1 = Shiny (Eclipse, Enmundi)
 - 2 = Dull (Aquila, Parade)
- 2 Luster lower side:
 - 1 = Shiny (Mystic, Enmundi)
 - 2 = Dull (Barvie, Eclipse)
- ☆ 1 Margin hairs (Fringe on Margin or Base):
 - 1 = Absent (Delta)
 - 2 = Present (Fylking, Merion)
- ☆ 3 Width
 - 1 = Very fine (Mystic)
 - 2 = Fine (Nugget)
 - 3 = Medium (Merion, Fylking)
 - 4 = Broad (Adelphi, Baron)
 - 5 = Very broad (Monopoly)

3 6 9 mm Width (flag leaf)

0 7 0 mm Narrower than
Width same as

0 7 mm Wider than

5 6 3 mm Length (flag leaf)

mm Shorter than
Length same as

1 0 0 mm Longer than
Position of flag leaf (angle to stem):

- ☆ 12 1=Nugget 2=Fylking 3=Delta 10=Quantum Leap 13=Liberator
- ☆ 13 4=Merion 5=Newport 6=Baron 11=Midnight
- ☆ 1 7=Mystic 8=Sabre 9=Reubens 12=Absolute
- ☆ 1=Nugget 2=Fylking 3=Delta 13=Liberator
- ☆ 13 4=Merion 5=Newport 6=Baron
- ☆ 6 7=Mystic 8=Sabre 9=Reubens
- 1 = 2 = Open angle, yet stiff 3 = Nodding

7. LEAF SHEATH:

- 1 2 0 mm sheath length
- ☆ Seedling Color (base of sheath):
 - 1 = Green (Nugget, Merion)
 - 2 = Red (Delta)
- ☆ 1 Hairs on Margin:
 - 1 = Absent (Fylking)
 - 2 = Present (Nugget)
- ☆ 1 Margin Roughness (to touch):
 - 1 = Smooth (Delta)
 - 2 = Rough (Sabre)
- 1 Hairs on Surface
 - 1 = Absent
 - 2 = Present (Nugget)
- 1 Surface Roughness (to touch):
 - 1 = Smooth (Fylking)
 - 2 = Rough (Ram I)
- 1 Hairs on both sides just beneath leaf blade (Under collar):
 - 1 = Absent (Merion)
 - 2 = Present (Nugget)
- ☆ 1 Hairs on Ligule:
 - 1 = Absent (Fylking)
 - 2 = Short (Baron)
 - 3 = Long (Nugget)
- 1 Glaucosity:
 - 1 = Absent (Mystic, Enmundi)
 - 2 = Present (Birka)
- 2 Keel:
 - 1 = Absent (Ram I)
 - 2 = Present (Adelphi)

8 PANICLE (Mature plant):

200300008

| | | | | | | | | |
|--------------------------------|--------------------------------|--|---|-----------------------------------|----------|-------------------------|-----------|------------------------|
| <input type="text" value="9"/> | <input type="text" value="6"/> | <input type="text" value="7"/> | mm Length (Lowest whorl to top, for 10 plants) Test area: | Rathdrum, Idaho. | | | | |
| <input type="text" value="2"/> | <input type="text" value="5"/> | <input type="text" value="6"/> | mm Shorter than | ☆ <input type="text" value="14"/> | 1=Nugget | 2=Fylking | 3=Delta | 14=Touchdown |
| | | | Panicle length same as | ☆ <input type="text" value="6"/> | 4=Merion | 5=Newport | 6=Baron | |
| <input type="text" value="2"/> | <input type="text" value="7"/> | <input type="text" value="4"/> | mm Longer than | ☆ <input type="text" value="1"/> | 7=Mystic | 8=Sabre | 9=Reubens | |
| ☆ | <input type="text" value="2"/> | Color (at 50% flowering): | | 1 = Not red (Fylking) | | 2 = Red (Nugget) | | |
| | <input type="text" value="1"/> | Shape of Rachis (Opposite lower side of branches): | | 1 No bend (Nugget) | | 2 = Bend (Merion) | | |
| ☆ | <input type="text" value="1"/> | Collar: | | 1 = Opened (Nugget) | | 2 = Closed (Merion) | | |
| ☆ | <input type="text" value="2"/> | Branches Attitude (Lowest whorl): | | 1 = Drooping (America, Prato) | | 2 = Horizontal (Merion) | | 3 = Ascending (Tundra) |
| <input type="text" value="4"/> | <input type="text" value="2"/> | <input type="text" value="7"/> | Number of main branches in lowest whorl | | | | | |
| ☆ | <input type="text" value="1"/> | Panicle Habit: | | 1 = Nodding (Newport) | | 2 = Upright (Nugget) | | |
| ☆ | <input type="text" value="1"/> | Panicle Type: | | 1 = Open | | 2 = Intermediate | | 3 = Compact |
| | <input type="text" value="1"/> | Anther color (anthesis) | | 1 = Purple | | 2 = Yellow | | 3 = Brown |

9 Lemma:

| | | | | | |
|---|--------------------------------|---------------------|--------------|------------------------|----------------------|
| ☆ | <input type="text" value="1"/> | Keel | 1 = Galbrous | 2 = Slightly pubescent | 3 = pubescent |
| ☆ | <input type="text" value="1"/> | Marginal Nerves | | | |
| | <input type="text" value="1"/> | Intermediate Nerves | 1 = Distinct | 2 = Obscure | |
| | <input type="text" value="1"/> | Basal Webbing | 1 = Absent | 2 = Scant (Baron) | 3 = Copious (Merion) |

10. SEED (Floret-not hulled):

| | | | | | |
|---|--------------------------------|---------------------|---------------------------------|-----------------------|---------------------|
| ☆ | <input type="text" value="2"/> | Apomixis Percentage | 1 = more than 95 | 2 = 85 to 95 | 3 = less than 85 |
| | <input type="text" value=""/> | Phenol Reaction | 1 = none-lemma removed (Merion) | 2 = Beige (Cougar) | 3 = Brown (Windsor) |
| | | | 4 = Black (Mystic 2 hours) | 5 = Black (24 hours) | |

| | | | | | | | | |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|------------|
| <input type="text" value=""/> | <input type="text" value="0"/> | <input type="text" value="7"/> | <input type="text" value="0"/> | mm. Width (average of 10) | <input type="text" value="3"/> | <input type="text" value="0"/> | <input type="text" value="4"/> | mm. Length |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|------------|

| | | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------|
| <input type="text" value="3"/> | <input type="text" value="9"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | Milligrams per 10,000 seed |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------|

| | | | | | | | | |
|---------------------------------|--------------------------------|--------------------------------|----------------------|-----------------------------------|----------|-----------|---------|-----------------|
| <input type="text" value="11"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | Milligrams less than | ☆ <input type="text" value="1"/> | 1=Nugget | 2=Fylking | 3=Delta | 10=Quantum leap |
| | | | Weight same as | ☆ <input type="text" value="11"/> | 4=Merion | 5=Newport | 6=Baron | 11=Midnight |

| | | | | | | | | |
|--------------------------------|--------------------------------|--------------------------------|----------------------|-----------------------------------|-----------|---------|-----------|-------------|
| <input type="text" value="3"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | Milligrams more than | ☆ <input type="text" value="13"/> | 7=Reubens | 8=Sabre | 9=Reubens | 12=Absolute |
|--------------------------------|--------------------------------|--------------------------------|----------------------|-----------------------------------|-----------|---------|-----------|-------------|

| | | | | | |
|---|--------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|----------------------------------|
| ☆ | <input type="text" value="2"/> | Weight Class (g per 10,000 seed): | 1 = Light (< 3g Sydsport, Merion) | 2 = Medium (3g - 4 g Adelphi, Parade) | 3 = Heavy (> 4g Fylking, Nugget) |
|---|--------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|----------------------------------|

13=Liberator

11. ENVIRONMENTAL RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant):

| | | | | | | | |
|--------------------------------|---------------------------------|--------------------------------|-----------------|--------------------------------|----------------------|--------------------------------|-----------------------|
| <input type="text" value="2"/> | Cool Temperature (Winter color) | <input type="text" value="3"/> | Cold (injury) | <input type="text" value="3"/> | Heat | <input type="text" value="3"/> | Drought |
| <input type="text" value="2"/> | Shade | <input type="text" value="3"/> | Low Fertility | <input type="text" value="0"/> | Acid Soil (<pH. 5.5) | <input type="text" value="0"/> | Alkalinity (pH > 7.5) |
| <input type="text" value="0"/> | Salinity | <input type="text" value="0"/> | Soil Compaction | <input type="text" value="0"/> | Poor Drainage | <input type="text" value="0"/> | Air Pollution |
| <input type="text" value=""/> | | <input type="text" value=""/> | | <input type="text" value=""/> | | <input type="text" value=""/> | Other (specify) _____ |

12. DISEASE RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2 = Moderately susceptible; 3 = Moderately resistant; 4 = Highly resistant):

| | | | |
|--------------------------------|--|--------------------------------|------------------------------------|
| <input type="text" value="4"/> | Melting-out <i>Drechslera poa</i> (<i>Helminthosporium vagans</i>) | <input type="text" value="0"/> | Scerotina Patch <i>S. borealis</i> |
| <input type="text" value="4"/> | Helminthosporium Leaf spot <i>Bipolaris sorokiniana</i> | <input type="text" value="2"/> | Stem rust <i>Puccinia graminis</i> |
| <input type="text" value="3"/> | Brown patch <i>Rhizoctonia solani</i> | <input type="text" value="0"/> | Stripe Rust <i>P. stiformis</i> |

| | |
|-----|---|
| 2 | Powdery mildew <i>Erysiphe graminis</i> |
| 4 | Stripe smut <i>Ustilage striiformis</i> |
| 0 | Flag Smut <i>Urocystis agropyri</i> |
| 2 | Pink Snow Mold <i>Fusarium nivale</i> |
| 3 | Ergot <i>Claviceps purpurea</i> |
| ☆ 4 | Fusarium blight <i>F. tricinctum</i> , <i>F. roseum</i> |
| 3 | Typhula Blight <i>Typhula</i> spp. |
| 3 | Dollar spot <i>Sclerotinia homoeocarpa</i> |

| | |
|---|--|
| 2 | Leaf Rust <i>P. poa-nemoralis</i> |
| 0 | Orange Stripe Rust <i>P. poarum</i> |
| 0 | Pythium Blight <i>Pythium</i> spp. |
| 0 | Red thread <i>Corticium fusciforme</i> |
| | Other: _____ |
| | Other: _____ |
| | |
| | |

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13. INSECTS, NEMATODES, RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

| | |
|---|--|
| 0 | Chinch Bug <i>Blissus</i> spp. (give species: _____) |
| 0 | Sod Webworm <i>Crambus</i> spp. (give species: _____) |
| 0 | Bluegrass Billbug <i>Sphenophorus parvulus</i> (give species: _____ Manhattan, Kansas site. _____) |
| 0 | White Grub (Japanese Beetle, Chafer. (give species: _____) |
| 0 | Greenbug Aphid <i>Schizaphis graminum</i> |
| | Other: _____ |
| | Other: _____ |

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY, For the following characteristics indicate Degree of Resemblance by placing the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety. 2 = Same As 3 = More than, better, greater, darker, more disease resistant, etc.

| CHARACTER | VARIETY | D.R. | CHARACTER | VARIETY | D.R. |
|------------------|--------------|------|-------------------|--------------|------|
| Maturity-heading | Absolute | 1 | Leaf width | Quantum Leap | 2 |
| Height | Absolute | 2 | Leaf color spring | Quantum Leap | 2 |
| Seed size | Quantum Leap | 2 | Leaf color summer | Quantum Leap | 2 |
| Seed weight | Quantum Leap | 2 | Leaf color winter | Quantum Leap | 2 |
| Cold injury | Quantum Leap | 2 | Drought | Quantum Leap | 2 |
| Heat | Quantum Leap | 3 | Disease | Quantum Leap | 2 |
| Shade | Quantum Leap | 2 | (Leaf spot) | | |

☆☆Specify each disease evaluated.

15. ADDITIONAL DESCRIPTION:

Describe all character

OS 00 10 10 10

0217 01 10

Exhibit 16D**Additional Description of the Variety**
Perfection Kentucky Bluegrass

'Perfection' is a late maturing cultivar, similar to 'Award,' with a high degree of apomixis. Culm length in Post Falls, ID, at anthesis averages 43 cm and at maturity averages 67 cm. Panicle length averages 9.7 cm. Culms are smooth to the touch and the flag leaf is only slightly rough when felt against the grain. Shape of the spaced plants are fairly rectangular or blocky, meaning that there is less tapering in culm length towards the perimeter of the plant than in other varieties.

Panicle color at anthesis is only slightly purple with a predominate light green cast. Leaf color is a bluish green with an only slightly yellow culm. Leaf texture is medium. Lateral extension from rhizome growth in one year averages 24-cm in diameter.

Most of the variants in this cultivar are similar in appearance to the cultivar itself, making them virtually indistinguishable, except by the breeder. The primary variants in this cultivar show up initially during the heading phase. Very few variants appear in the pre-heading phase of maturation. The heading maturity variants appear to have slightly less purple seedheads than the majority plant form, however their other plant characteristics are indistinguishable. About 1% of the plants are a taller-growing, "common-type" variant with broader, lighter green leaves, and a culm length that exceeds the majority plant form by approximately 12 cm. Similar purpling can be seen in the panicles of these particular variants, indicating their relationship to the cultivar.

Apomixis averages 94%, but varies from 90% to 99% and above, depending on growing conditions. Aberrant progeny are rogued from breeders, foundation, and registered fields to insure continued uniformity and stability, but they will continue to occur in every generation.

Perfection is a versatile Kentucky bluegrass cultivar, with applications on golf courses, sod farms, sports fields, home lawns, roadsides, cemeteries, and other turf areas, where bluegrass is well adapted. Perfection is tolerant of close mowing, down to ½ inch with good management. Perfection performs well in full sun or partial shade.

Table 1. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Culm length (cm) | | Sheath length (cm) | | Panicle length (cm) | |
|-------------------|------------------|-------------|--------------------|------------|---------------------|-------------|
| | 1999 | 2000 | 1999 | 2000 | 1999 | 2000 |
| Perfection | 66.7 | 53.9 | 12.0 | 8.9 | 9.67 | 8.86 |
| Awesome | 51.3 | 0.000 | 10.7 | 0.000 | 8.52 | 0.000 |
| Barrister | 49.6 | 0.000 | 10.3 | 0.000 | 8.06 | 0.000 |
| Tsunami | 50.9 | 0.000 | 10.9 | 0.000 | 8.90 | 0.000 |
| Nu Destiny | 56.7 | 0.000 | 13.0 | 0.000 | 10.15 | 0.000 |
| Beyond | 48.6 | 0.000 | 10.2 | 0.000 | 8.30 | 0.000 |
| Absolute | 61.9 | 0.000 | 11.6 | 0.060 | 8.30 | 0.000 |
| Arcadia | 48.6 | 0.000 | 10.7 | 0.000 | 9.12 | 0.006 |
| Award | 58.3 | 0.000 | 10.8 | 0.000 | 9.02 | 0.001 |
| Baron | 40.0 | 0.000 | 11.8 | 0.279 | 9.20 | 0.021 |
| Blacksburg | 53.6 | 0.000 | 10.5 | 0.000 | 8.42 | 0.000 |
| Bluemoon | 46.4 | 0.000 | 11.0 | 0.000 | 9.02 | 0.001 |
| Chicago 2 | | 46.4 | | 0.000 | | 6.89 |
| Freedom 2 | 53.2 | 0.000 | 9.3 | 0.000 | 8.02 | 0.000 |
| Glade | 43.9 | 0.000 | 11.3 | 0.001 | 9.12 | 0.007 |
| Impact | 45.9 | 0.000 | 10.2 | 0.000 | 8.30 | 0.000 |
| Liberator | 46.0 | 0.000 | 10.9 | 0.000 | 8.83 | 0.000 |
| Limousine | 47.2 | 0.000 | 9.8 | 0.000 | 7.55 | 0.000 |
| Midnight | 54.3 | 0.000 | 10.4 | 0.000 | 8.17 | 0.000 |
| Nugget | 40.5 | 0.000 | 8.9 | 0.000 | 6.93 | 0.000 |
| NuGlade | 53.9 | 0.000 | 11.2 | 0.000 | 9.29 | 0.062 |
| Odyssey | 44.6 | 0.000 | 10.9 | 0.000 | 9.23 | 0.028 |
| QuantumLeap | 60.0 | 0.000 | 10.8 | 0.000 | 8.93 | 0.000 |
| Rambo | 46.8 | 0.000 | 10.0 | 0.000 | 8.21 | 0.000 |
| Rugby II | 45.8 | 0.000 | 9.8 | 0.000 | 8.22 | 0.000 |
| Total Eclipse | 48.0 | 0.000 | 9.5 | 0.000 | 7.59 | 0.000 |
| Touchdown | 60.8 | 0.000 | 16.5 | 0.000 | 12.23 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 2. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Flagleaf length (cm) | | Flagleaf width (mm) | | Flagleaf length-to-width ratio (cm cm ⁻¹) | |
|-------------------|----------------------|-------------|---------------------|-------------|---|-------------|
| | 1999 | 2000 | 1999 | 2000 | 1999 | 2000 |
| Perfection | 5.63 | 4.83 | 3.69 | 1.91 | 15.4 | 28.7 |
| Awesome | 5.22 | 3.60 | 3.18 | 1.87 | 16.8 | 21.2 |
| Barrister | 4.33 | 3.81 | 3.48 | 2.45 | 13.1 | 16.0 |
| Tsunami | 5.18 | 4.04 | 4.47 | 2.61 | 12.5 | 16.2 |
| Nu Destiny | 5.90 | 4.04 | 3.71 | 2.58 | 16.2 | 16.2 |
| Beyond | 4.76 | 4.25 | 3.09 | 2.14 | 15.6 | 22.4 |
| Absolute | 5.27 | 3.88 | 4.39 | 3.00 | 12.3 | 13.1 |
| Arcadia | 5.59 | 3.81 | 3.56 | 2.51 | 18.3 | 16.9 |
| Award | 5.38 | 4.05 | 3.43 | 2.15 | 16.2 | 20.3 |
| Baron | 4.63 | 3.28 | 3.71 | 3.38 | 14.2 | 14.3 |
| Blacksburg | 5.18 | 3.45 | 4.20 | 2.97 | 12.5 | 12.0 |
| Bluemoon | 5.32 | 3.95 | 3.39 | 1.58 | 16.1 | 27.6 |
| Chicago 2 | | 3.24 | | 1.76 | | 19.1 |
| Freedom 2 | 4.28 | 3.05 | 3.19 | 2.58 | 14.4 | 12.0 |
| Glade | 4.56 | 4.08 | 3.38 | 2.42 | 13.8 | 18.3 |
| Impact | 4.93 | 4.18 | 3.37 | 1.54 | 14.8 | 29.5 |
| Liberator | 6.06 | 4.33 | 3.47 | 1.98 | 18.1 | 23.7 |
| Limousine | 4.36 | 3.42 | 3.33 | 2.56 | 14.4 | 13.8 |
| Midnight | 5.39 | 4.09 | 3.18 | 2.44 | 17.3 | 17.1 |
| Nugget | 3.49 | 3.46 | 3.03 | 2.70 | 12.2 | 12.8 |
| NuGlade | 5.14 | 4.01 | 3.84 | 2.46 | 13.7 | 16.4 |
| Odyssey | 5.09 | 4.49 | 4.07 | 2.54 | 12.7 | 17.7 |
| QuantumLeap | 5.11 | 4.18 | 3.50 | 2.30 | 14.9 | 18.9 |
| Rambo | 4.75 | 4.18 | 3.35 | 2.44 | 14.3 | 18.0 |
| Rugby II | 4.77 | 4.45 | 3.16 | 1.39 | 15.6 | 33.4 |
| Total Eclipse | 4.29 | 3.75 | 2.75 | 2.25 | 15.9 | 18.1 |
| Touchdown | 5.31 | 3.65 | 3.85 | 4.80 | 14.8 | 8.6 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 3. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Second leaf length (cm) | | Second leaf width (mm) | | Length-to-width ratio of second subtending leaf (cm cm ⁻¹) | |
|-------------------|-------------------------|-------------|------------------------|-------------|--|-------------|
| | 1999 | 2000 | 1999 | 2000 | 1999 | 2000 |
| Perfection | 9.98 | 8.02 | 4.01 | 1.78 | 25.6 | 52.8 |
| Awesome | 9.03 | 7.48 | 3.57 | 1.88 | 26.9 | 44.4 |
| Barrister | 6.77 | 7.87 | 3.77 | 2.67 | 18.7 | 31.8 |
| Tsunami | 7.31 | 8.00 | 4.50 | 2.69 | 17.1 | 31.8 |
| Nu Destiny | 7.71 | 7.17 | 4.14 | 2.76 | 19.4 | 28.6 |
| Beyond | 8.37 | 7.72 | 3.51 | 2.13 | 24.9 | 41.1 |
| Absolute | 8.57 | 7.57 | 5.08 | 2.70 | 17.1 | 31.3 |
| Arcadia | 8.35 | 7.53 | 4.90 | 2.69 | 17.4 | 32.2 |
| Award | 8.82 | 7.89 | 3.83 | 2.45 | 23.9 | 35.1 |
| Baron | 6.70 | 5.87 | 5.31 | 3.08 | 13.4 | 24.4 |
| Blacksburg | 7.29 | 6.49 | 4.17 | 3.20 | 18.0 | 21.5 |
| Bluemoon | 8.70 | 6.90 | 3.70 | 1.76 | 24.7 | 45.0 |
| Chicago 2 | | 4.93 | | 2.09 | | 26.6 |
| Freedom 2 | 7.26 | 5.81 | 3.88 | 2.45 | 19.5 | 25.2 |
| Glade | 6.84 | 6.81 | 3.74 | 2.65 | 19.2 | 28.8 |
| Impact | 8.68 | 7.79 | 3.67 | 1.72 | 24.6 | 51.6 |
| Liberator | 8.49 | 7.98 | 3.75 | 1.97 | 23.5 | 44.2 |
| Limousine | 6.05 | 5.84 | 3.15 | 2.71 | 20.7 | 22.4 |
| Midnight | 7.42 | 7.74 | 3.74 | 2.65 | 20.3 | 30.8 |
| Nugget | 5.51 | 5.85 | 3.28 | 2.64 | 18.1 | 22.7 |
| NuGlade | 8.17 | 8.46 | 3.82 | 2.80 | 22.0 | 31.3 |
| Odyssey | 8.30 | 9.12 | 4.48 | 2.70 | 19.3 | 34.2 |
| QuantumLeap | 7.91 | 7.93 | 3.80 | 2.30 | 21.5 | 37.4 |
| Rambo | 7.88 | 7.78 | 3.76 | 3.44 | 21.8 | 32.2 |
| Rugby II | 8.03 | 8.45 | 3.29 | 1.51 | 25.6 | 59.3 |
| Total Eclipse | 7.10 | 7.49 | 2.78 | 2.33 | 27.2 | 36.8 |
| Touchdown | 7.38 | 7.53 | 4.54 | 5.80 | 17.9 | 14.7 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pairwise comparisons, based on individual degrees of freedom.

Table 4. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Panicle length of lowest internode (cm) | | Panicle length minus the lowest internode (cm) | | Internode length below the panicle node (cm) | |
|-------------------|---|-------------|--|-------------|--|-------------|
| | 1999 | 2000 | 1999 | 2000 | 1999 | 2000 |
| | prob. | prob. | prob. | prob. | prob. | prob. |
| Perfection | 2.21 | 1.66 | 7.46 | 5.95 | 30.3 | 22.7 |
| Awesome | 1.96 | 1.54 | 6.56 | 0.000 | 30.1 | 0.789 |
| Barrister | 1.90 | 1.58 | 6.16 | 0.000 | 29.1 | 0.087 |
| Tsunami | 2.04 | 1.51 | 6.86 | 0.000 | 29.0 | 0.075 |
| Nu Destiny | 2.34 | 1.87 | 7.81 | 0.037 | 38.1 | 0.000 |
| Beyond | 1.91 | 1.57 | 6.40 | 0.000 | 27.3 | 0.000 |
| Absolute | 2.00 | 1.32 | 6.30 | 0.000 | 28.8 | 0.035 |
| Arcadia | 2.17 | 1.51 | 6.94 | 0.002 | 31.2 | 0.185 |
| Award | 2.12 | 1.53 | 6.90 | 0.001 | 30.3 | 0.992 |
| Baron | 2.07 | 1.56 | 7.14 | 0.059 | 26.5 | 0.000 |
| Blacksburg | 1.97 | 1.33 | 6.46 | 0.000 | 34.8 | 0.000 |
| Bluemoon | 2.07 | 1.53 | 6.96 | 0.003 | 28.1 | 0.002 |
| Chicago 2 | | 1.29 | | 0.000 | | 0.000 |
| Freedom 2 | 1.88 | 1.28 | 6.13 | 0.000 | 29.7 | 0.384 |
| Glade | 1.98 | 1.94 | 7.14 | 0.059 | 30.5 | 0.775 |
| Impact | 1.84 | 1.59 | 6.47 | 0.000 | 28.1 | 0.002 |
| Liberator | 1.94 | 1.51 | 6.88 | 0.001 | 28.6 | 0.015 |
| Limousine | 1.81 | 1.42 | 5.74 | 0.000 | 30.8 | 0.486 |
| Midnight | 1.95 | 1.55 | 6.22 | 0.000 | 28.9 | 0.053 |
| Nugget | 1.66 | 1.54 | 5.27 | 0.000 | 27.9 | 0.001 |
| NuGlade | 2.11 | 1.46 | 7.19 | 0.108 | 30.7 | 0.557 |
| Odyssey | 2.08 | 1.68 | 7.15 | 0.067 | 28.1 | 0.002 |
| QuantumLeap | 2.05 | 1.44 | 6.88 | 0.001 | 30.6 | 0.696 |
| Rambo | 1.82 | 1.43 | 6.39 | 0.000 | 27.7 | 0.000 |
| Rugby II | 1.87 | 1.60 | 6.35 | 0.000 | 27.1 | 0.000 |
| Total Eclipse | 1.77 | 1.52 | 5.82 | 0.000 | 26.7 | 0.000 |
| Touchdown | 3.26 | 2.36 | 8.98 | 0.000 | 37.3 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

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Table 5. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Branches at lowest panicle whorl | | Culm length from panicle node to flagleaf collar (cm) | | | | Culm length from crown to flagleaf node (cm) | | | | | |
|-------------------|----------------------------------|-------|---|-------|-------------|-------|--|-------|-------------|-------|-------------|-------|
| | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. |
| Perfection | 4.27 | | 3.56 | | 18.2 | | 13.9 | | 26.8 | | 31.2 | |
| Awesome | 4.02 | 0.078 | 3.07 | 0.000 | 19.4 | 0.063 | 15.5 | 0.000 | 12.8 | 0.000 | 32.8 | 0.014 |
| Barrister | 4.30 | 0.814 | 3.46 | 0.346 | 18.8 | 0.416 | 15.3 | 0.004 | 12.5 | 0.000 | 27.9 | 0.000 |
| Tsunami | 4.22 | 0.724 | 3.50 | 0.565 | 18.2 | 0.894 | 14.8 | 0.057 | 13.2 | 0.000 | 31.3 | 0.896 |
| Nu Destiny | 4.56 | 0.040 | 3.19 | 0.000 | 25.1 | 0.000 | 15.2 | 0.006 | 9.0 | 0.000 | 30.0 | 0.089 |
| Beyond | 3.78 | 0.001 | 3.18 | 0.000 | 17.2 | 0.091 | 14.6 | 0.135 | 13.1 | 0.000 | 33.3 | 0.002 |
| Absolute | 3.90 | 0.010 | 3.01 | 0.000 | 17.2 | 0.106 | 10.7 | 0.000 | 24.8 | 0.021 | 36.7 | 0.000 |
| Arcadia | 4.35 | 0.556 | 3.28 | 0.009 | 20.5 | 0.000 | 14.2 | 0.537 | 9.6 | 0.000 | 29.2 | 0.003 |
| Award | 4.25 | 0.906 | 3.43 | 0.228 | 19.5 | 0.045 | 16.5 | 0.000 | 19.1 | 0.000 | 30.3 | 0.183 |
| Baron | 4.68 | 0.003 | 3.70 | 0.283 | 14.8 | 0.000 | 9.1 | 0.000 | 6.4 | 0.000 | 25.0 | 0.000 |
| Blacksburg | 4.17 | 0.480 | 3.48 | 0.550 | 24.2 | 0.000 | 16.8 | 0.000 | 10.5 | 0.000 | 25.3 | 0.000 |
| Bluemoon | 4.03 | 0.100 | 3.27 | 0.005 | 17.1 | 0.071 | 14.8 | 0.056 | 9.7 | 0.000 | 29.3 | 0.004 |
| Chicago 2 | | | 3.78 | 0.036 | | | 17.6 | 0.000 | | | 22.1 | 0.000 |
| Freedom 2 | 4.90 | 0.000 | 4.13 | 0.000 | 20.4 | 0.001 | 14.3 | 0.332 | 15.5 | 0.000 | 24.5 | 0.000 |
| Glade | 4.08 | 0.196 | 3.03 | 0.000 | 19.2 | 0.117 | 15.3 | 0.013 | 5.9 | 0.000 | 28.5 | 0.001 |
| Impact | 4.00 | 0.060 | 3.30 | 0.014 | 17.9 | 0.605 | 15.0 | 0.023 | 10.1 | 0.000 | 27.3 | 0.000 |
| Liberator | 3.97 | 0.034 | 3.23 | 0.002 | 17.7 | 0.368 | 13.6 | 0.513 | 9.5 | 0.000 | 30.0 | 0.081 |
| Limousine | 4.97 | 0.000 | 3.93 | 0.004 | 21.0 | 0.000 | 14.8 | 0.105 | 9.4 | 0.000 | 23.1 | 0.000 |
| Midnight | 3.98 | 0.046 | 2.97 | 0.000 | 18.5 | 0.672 | 17.1 | 0.000 | 17.2 | 0.000 | 35.3 | 0.000 |
| Nugget | 3.85 | 0.003 | 2.87 | 0.000 | 19.0 | 0.247 | 13.2 | 0.230 | 7.9 | 0.000 | 22.9 | 0.000 |
| NuGlade | 4.23 | 0.814 | 3.48 | 0.464 | 19.5 | 0.043 | 12.5 | 0.006 | 13.9 | 0.000 | 30.6 | 0.414 |
| Odyssey | 4.47 | 0.158 | 3.83 | 0.013 | 17.3 | 0.135 | 11.6 | 0.000 | 8.7 | 0.000 | 33.6 | 0.000 |
| QuantumLeap | 4.43 | 0.239 | 3.38 | 0.094 | 19.7 | 0.019 | 13.4 | 0.344 | 20.5 | 0.000 | 28.5 | 0.000 |
| Rambo | 4.13 | 0.347 | 3.39 | 0.116 | 17.7 | 0.371 | 13.5 | 0.487 | 11.2 | 0.000 | 31.1 | 0.911 |
| Rugby II | 4.02 | 0.078 | 3.47 | 0.417 | 17.4 | 0.169 | 13.2 | 0.190 | 10.8 | 0.000 | 32.4 | 0.070 |
| Total Eclipse | 3.73 | 0.000 | 3.33 | 0.026 | 17.2 | 0.111 | 14.4 | 0.233 | 13.8 | 0.000 | 30.7 | 0.504 |
| Touchdown | 3.55 | 0.000 | 3.30 | 0.044 | 20.8 | 0.000 | 14.9 | 0.076 | 11.6 | 0.000 | 36.9 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 6. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Panicle fresh weight (g/10 panicles) | | | | Seed length (mm) | | | | Seed width (mm) | | | |
|-------------------|--------------------------------------|-------|-------------|-------|------------------|-------|-------------|-------|-----------------|-------|-------------|-------|
| | 1999 | | 2000 | | 1999 | | 2000 | | 1999 | | 2000 | |
| | prob. | prob. | prob. | prob. | prob. | prob. | prob. | prob. | prob. | prob. | prob. | prob. |
| Perfection | 2.19 | | 1.76 | | 3.04 | | 2.87 | | 0.70 | | 0.64 | |
| Awesome | 1.57 | 0.000 | 1.45 | 0.069 | 3.10 | 0.072 | 2.80 | 0.046 | 0.73 | 0.002 | 0.65 | 0.519 |
| Barrister | 1.91 | 0.080 | 1.98 | 0.193 | 2.95 | 0.016 | 2.84 | 0.415 | 0.70 | 0.951 | 0.64 | 0.963 |
| Tsunami | 2.03 | 0.326 | 1.80 | 0.804 | 3.09 | 0.166 | 2.78 | 0.004 | 0.71 | 0.323 | 0.63 | 0.334 |
| Nu Destiny | 1.65 | 0.001 | 2.11 | 0.039 | 3.13 | 0.010 | 2.97 | 0.005 | 0.72 | 0.013 | 0.69 | 0.000 |
| Beyond | 1.87 | 0.030 | 1.50 | 0.123 | 3.14 | 0.005 | 2.83 | 0.188 | 0.71 | 0.266 | 0.63 | 0.679 |
| Absolute | 1.30 | 0.000 | 1.85 | 0.562 | | | 3.02 | 0.000 | | | 0.68 | 0.000 |
| Arcadia | 2.23 | 0.838 | 2.23 | 0.005 | 3.14 | 0.004 | 2.86 | 0.790 | 0.70 | 0.439 | 0.66 | 0.073 |
| Award | 1.86 | 0.038 | 1.82 | 0.714 | 3.10 | 0.077 | 2.90 | 0.407 | 0.69 | 0.458 | 0.65 | 0.269 |
| Baron | 1.76 | 0.028 | 2.27 | 0.014 | | | 2.98 | 0.011 | | | 0.76 | 0.000 |
| Blacksburg | 2.04 | 0.342 | 1.42 | 0.103 | | | 2.49 | 0.000 | | | 0.66 | 0.143 |
| Bluemoon | 0.97 | 0.000 | 1.53 | 0.188 | 3.12 | 0.021 | 2.88 | 0.882 | 0.69 | 0.665 | 0.63 | 0.747 |
| Chicago 2 | | | 1.98 | 0.196 | | | 3.05 | 0.000 | | | 0.69 | 0.000 |
| Freedom 2 | 1.80 | 0.015 | 1.49 | 0.114 | | | 2.96 | 0.009 | | | 0.66 | 0.024 |
| Glade | 1.64 | 0.001 | 1.80 | 0.844 | 3.16 | 0.007 | 3.04 | 0.000 | 0.74 | 0.000 | 0.69 | 0.000 |
| Impact | 1.45 | 0.000 | 1.41 | 0.038 | 3.01 | 0.389 | 2.79 | 0.018 | 0.72 | 0.031 | 0.64 | 0.890 |
| Liberator | 1.36 | 0.000 | 1.55 | 0.226 | 3.06 | 0.538 | 2.83 | 0.208 | 0.69 | 0.497 | 0.65 | 0.250 |
| Limousine | 2.33 | 0.481 | 1.01 | 0.000 | | | 2.67 | 0.000 | | | 0.59 | 0.000 |
| Midnight | 2.61 | 0.010 | 1.59 | 0.317 | 3.05 | 0.787 | 2.87 | 0.991 | 0.70 | 0.804 | 0.65 | 0.135 |
| Nugget | 0.99 | 0.000 | 1.18 | 0.005 | 3.22 | 0.000 | 3.29 | 0.000 | 0.73 | 0.010 | 0.71 | 0.000 |
| NuGlade | 1.60 | 0.000 | 2.01 | 0.135 | 3.16 | 0.000 | 2.84 | 0.300 | 0.71 | 0.335 | 0.64 | 0.927 |
| Odyssey | 1.40 | 0.000 | 1.88 | 0.449 | 3.15 | 0.001 | 2.88 | 0.711 | 0.68 | 0.041 | 0.64 | 0.927 |
| QuantumLeap | 2.40 | 0.196 | 1.99 | 0.162 | 3.14 | 0.007 | 2.88 | 0.906 | 0.69 | 0.354 | 0.66 | 0.017 |
| Rambo | 1.11 | 0.000 | 1.43 | 0.051 | 3.13 | 0.009 | 2.81 | 0.089 | 0.70 | 0.665 | 0.63 | 0.519 |
| Rugby II | 0.92 | 0.000 | 1.86 | 0.533 | 3.03 | 0.841 | 2.94 | 0.044 | 0.69 | 0.757 | 0.67 | 0.001 |
| Total Eclipse | 2.10 | 0.571 | 1.31 | 0.009 | 3.09 | 0.148 | 2.77 | 0.002 | 0.70 | 0.951 | 0.63 | 0.461 |
| Touchdown | 1.72 | 0.018 | 1.94 | 0.374 | | | 2.92 | 0.277 | | | 0.72 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 7. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999-2002. Missing values indicate varieties not tested in a given year.

| Variety | Seed length-to-width ratio (cm cm ⁻¹) | | Seed weight per 100 seeds (g) | | Reproductive maturity rating, 7 June (1-9 scale, 9=early) | | | |
|-------------------|--|---------------|-------------------------------|---------------|---|---------------|---------------|---------------|
| | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 2001 prob. | 2002 prob. |
| Perfection | 4.39 | 4.53 | 0.039 | 0.035 | 6.6 | 6.7 | 6.9 | 6.4 |
| Awesome | 4.31 | 4.40 | 0.042 | 0.026 | 5.8 | 0.128 | 6.6 | 0.414 |
| Barrister | 4.25 | 0.020 | 0.041 | 0.061 | 6.1 | 0.384 | 6.8 | 0.786 |
| Tsunami | 4.40 | 0.872 | 0.045 | 0.000 | 6.6 | 1.000 | 6.7 | 0.586 |
| Nu Destiny | 4.37 | 0.779 | 0.046 | 0.000 | 7.3 | 0.128 | 6.6 | 0.414 |
| Beyond | 4.46 | 0.263 | 0.043 | 0.004 | 5.8 | 0.128 | 6.7 | 0.586 |
| Absolute | | 4.50 | 0.040 | 0.000 | 7.9 | 0.009 | 8.4 | 0.000 |
| Arcadia | 4.49 | 0.093 | 0.045 | 0.000 | 6.4 | 0.828 | 5.7 | 0.001 |
| Award | 4.53 | 0.018 | 0.038 | 0.515 | 4.8 | 0.001 | 4.8 | 0.000 |
| Baron | | 3.99 | 0.047 | 0.000 | 8.4 | 0.000 | 8.3 | 0.000 |
| Blacksburg | | 3.83 | 0.034 | 0.179 | 7.7 | 0.030 | 6.9 | 0.406 |
| Bluemoon | 4.53 | 0.025 | 0.039 | 0.846 | 5.7 | 0.082 | 6.7 | 0.586 |
| Chicago 2 | | 4.47 | 0.046 | 0.000 | 7.3 | 0.033 | 7.0 | 0.786 |
| Freedom 2 | | 4.55 | 0.031 | 0.000 | 7.6 | 0.051 | 8.0 | 0.000 |
| Glade | 4.31 | 0.284 | 0.042 | 0.100 | 7.1 | 0.276 | 7.8 | 0.000 |
| Impact | 4.23 | 0.008 | 0.036 | 0.127 | 5.4 | 0.030 | 6.4 | 0.406 |
| Liberator | 4.46 | 0.279 | 0.036 | 0.084 | 5.8 | 0.128 | 4.8 | 0.000 |
| Limousine | | 4.60 | 0.028 | 0.000 | 8.0 | 0.005 | 8.2 | 0.000 |
| Midnight | 4.39 | 0.927 | 0.040 | 0.209 | 5.0 | 0.002 | 5.8 | 0.006 |
| Nugget | 4.45 | 0.431 | 0.050 | 0.000 | 8.4 | 0.000 | 7.5 | 0.006 |
| NuGlade | 4.50 | 0.060 | 0.038 | 0.851 | 5.6 | 0.051 | 5.6 | 0.000 |
| Odyssey | 4.67 | 0.000 | 0.035 | 0.015 | 4.8 | 0.001 | 5.5 | 0.000 |
| QuantumLeap | 4.58 | 0.002 | 0.036 | 0.098 | 5.4 | 0.030 | 6.0 | 0.027 |
| Rambo | 4.49 | 0.110 | 0.040 | 0.481 | 6.0 | 0.276 | 4.6 | 0.000 |
| Rugby II | 4.38 | 0.811 | 0.040 | 0.414 | 5.0 | 0.002 | 5.8 | 0.003 |
| Total Eclipse | 4.45 | 0.348 | 0.042 | 0.050 | 5.4 | 0.030 | 5.8 | 0.006 |
| Touchdown | | 4.07 | 0.046 | 0.000 | 9.0 | 0.000 | 9.0 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

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Table 8. MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS
GROWN AT FOURTEEN LOCATIONS IN THE U.S. 1/
MAINTAINED USING "SCHEDULE B" *
2001 DATA

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

| NAME | IA1 | IL2 | KV1 | MN1 | MO1 | NC1 | NE2 | NJ2 | OK1 | PA1 | RI1 | VA1 | WA1 | WA3 | MEAN |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| MIDNIGHT II (A98-739) | 8.4 | 7.5 | 6.3 | 4.8 | 5.8 | 6.6 | 6.7 | 6.3 | 6.8 | 8.3 | 6.7 | 4.0 | 7.3 | 4.0 | 6.4 |
| J-1513 | 7.9 | 6.2 | 6.7 | 4.4 | 6.4 | 6.5 | 6.4 | 5.8 | 6.9 | 8.1 | 7.1 | 4.2 | 7.1 | 4.7 | 6.3 |
| AWARD | 7.8 | 6.9 | 6.2 | 4.2 | 6.1 | 6.1 | 6.8 | 6.0 | 6.6 | 7.9 | 7.6 | 4.0 | 7.1 | 4.5 | 6.3 |
| J-1420 | 7.8 | 7.1 | 5.9 | 4.4 | 6.3 | 6.1 | 6.6 | 5.8 | 6.7 | 8.1 | 6.9 | 4.3 | 6.6 | 4.8 | 6.2 |
| UNKNOWN | 8.2 | 6.9 | 5.7 | 4.6 | 6.4 | 6.0 | 6.2 | 6.8 | 6.6 | 7.7 | 6.8 | 4.1 | 6.9 | 4.4 | 6.2 |
| J-1515 | 7.7 | 6.8 | 6.1 | 4.3 | 6.4 | 6.4 | 6.4 | 5.8 | 6.8 | 7.6 | 7.3 | 4.2 | 6.8 | 4.5 | 6.2 |
| MOON SHADOW (PICK 113-3) | 7.9 | 6.6 | 7.2 | 4.6 | 6.2 | 6.4 | 6.2 | 6.0 | 6.3 | 7.4 | 6.4 | 4.4 | 7.0 | 4.3 | 6.2 |
| ARCADIA | 8.1 | 7.5 | 6.9 | 4.1 | 6.5 | 6.2 | 6.6 | 6.2 | 6.3 | 8.0 | 5.9 | 3.6 | 7.2 | 3.9 | 6.2 |
| BARRISTER (J-1655) | 7.9 | 7.1 | 5.7 | 4.1 | 6.8 | 5.4 | 6.5 | 6.3 | 6.9 | 7.9 | 6.6 | 4.5 | 7.2 | 3.9 | 6.2 |
| J-2695 | 8.1 | 7.6 | 6.2 | 4.2 | 6.2 | 5.8 | 6.4 | 6.1 | 7.0 | 7.5 | 6.2 | 3.8 | 7.1 | 4.4 | 6.2 |
| IMPACT | 8.0 | 5.8 | 6.2 | 4.3 | 6.1 | 6.5 | 6.9 | 6.3 | 6.7 | 8.0 | 6.2 | 3.8 | 7.3 | 4.4 | 6.2 |
| ODYSSEY | 7.8 | 7.5 | 5.8 | 4.4 | 6.0 | 6.0 | 6.5 | 6.0 | 6.6 | 7.7 | 7.0 | 3.8 | 6.7 | 4.4 | 6.2 |
| MIDNIGHT | 8.5 | 6.5 | 6.4 | 4.2 | 5.8 | 6.0 | 6.5 | 6.3 | 6.3 | 7.3 | 6.1 | 4.1 | 7.2 | 4.4 | 6.2 |
| LANGARA | 8.1 | 7.2 | 6.6 | 4.6 | 5.2 | 5.3 | 6.1 | 6.4 | 6.8 | 7.6 | 6.7 | 4.0 | 6.8 | 4.9 | 6.2 |
| TSUNAMI (J-2487) | 8.4 | 6.5 | 6.6 | 4.4 | 6.5 | 5.5 | 6.6 | 6.1 | 6.7 | 7.3 | 6.1 | 4.1 | 6.4 | 4.9 | 6.2 |
| J-2890 | 8.2 | 6.5 | 4.8 | 4.3 | 6.5 | 6.2 | 6.1 | 6.1 | 7.1 | 7.5 | 6.1 | 4.4 | 7.0 | 4.8 | 6.1 |
| A97-1715 | 7.8 | 6.7 | 6.4 | 4.0 | 6.2 | 6.7 | 6.2 | 5.6 | 6.8 | 7.0 | 6.2 | 4.8 | 6.9 | 4.2 | 6.1 |
| BLUESTONE (PST-731) | 8.1 | 6.6 | 5.9 | 4.2 | 6.4 | 5.9 | 6.9 | 6.0 | 6.9 | 7.7 | 5.8 | 4.1 | 6.9 | 4.1 | 6.1 |
| MOONLIGHT | 7.6 | 5.4 | 7.0 | 4.1 | 6.8 | 5.9 | 5.8 | 6.0 | 6.4 | 7.6 | 6.3 | 4.6 | 7.7 | 4.2 | 6.1 |
| TOTAL ECLIPSE | 7.9 | 6.8 | 5.9 | 4.2 | 5.8 | 5.7 | 6.9 | 6.0 | 6.6 | 7.1 | 6.6 | 4.1 | 7.2 | 4.6 | 6.1 |
| J-1368 | 8.3 | 7.0 | 5.3 | 4.3 | 6.2 | 5.9 | 6.2 | 6.1 | 6.7 | 8.2 | 6.3 | 3.7 | 6.7 | 4.3 | 6.1 |
| A97-1432 | 8.3 | 6.9 | 6.5 | 4.2 | 5.8 | 6.2 | 6.3 | 6.0 | 6.5 | 7.0 | 5.2 | 4.0 | 6.9 | 5.2 | 6.1 |
| PST-1701 | 7.7 | 7.3 | 6.3 | 4.9 | 5.5 | 4.9 | 5.7 | 6.6 | 6.1 | 6.2 | 7.0 | 5.0 | 6.8 | 4.7 | 6.0 |
| BLACKSTONE | 8.1 | 5.9 | 6.6 | 4.1 | 5.9 | 6.4 | 5.7 | 6.4 | 6.5 | 6.7 | 6.4 | 4.7 | 6.7 | 4.6 | 6.0 |
| BEYOND (J-1880) | 7.8 | 7.0 | 5.4 | 4.5 | 6.5 | 5.8 | 6.6 | 6.1 | 6.8 | 7.5 | 5.9 | 4.1 | 6.2 | 4.3 | 6.0 |
| EVERGLADE | 7.6 | 6.5 | 4.5 | 4.0 | 6.4 | 6.2 | 5.8 | 5.7 | 6.9 | 7.7 | 6.8 | 4.6 | 7.0 | 4.8 | 6.0 |
| BEDAZZLED | 7.9 | 6.0 | 5.6 | 4.1 | 6.4 | 6.7 | 6.3 | 6.1 | 5.9 | 7.1 | 6.7 | 4.6 | 6.7 | 4.2 | 6.0 |
| MALLARD (A97-1439) | 7.9 | 7.3 | 6.1 | 4.1 | 6.0 | 6.0 | 5.5 | 5.6 | 6.1 | 7.1 | 6.6 | 4.1 | 6.9 | 4.8 | 6.0 |
| J-1838 | 8.1 | 5.5 | 4.9 | 4.4 | 6.7 | 5.9 | 6.4 | 6.3 | 6.9 | 7.3 | 6.0 | 3.8 | 7.0 | 4.9 | 6.0 |
| ARROW (A97-1567) | 7.9 | 7.3 | 6.1 | 4.3 | 6.3 | 5.9 | 5.7 | 5.3 | 6.4 | 7.1 | 5.8 | 4.2 | 6.9 | 4.8 | 6.0 |
| BA 83-113 | 8.1 | 7.3 | 6.8 | 4.4 | 5.6 | 6.1 | 6.2 | 5.1 | 6.7 | 6.7 | 5.9 | 4.1 | 6.4 | 4.5 | 6.0 |
| FREEDOM II | 7.8 | 5.9 | 6.1 | 3.6 | 5.9 | 7.3 | 6.3 | 6.1 | 6.5 | 7.6 | 6.0 | 3.4 | 6.9 | 4.4 | 6.0 |
| PICK-232 | 7.7 | 7.1 | 7.0 | 4.5 | 6.1 | 5.8 | 5.9 | 5.2 | 6.3 | 6.9 | 6.5 | 4.3 | 6.4 | 4.1 | 6.0 |
| PRINCETON 105 | 7.6 | 6.3 | 5.9 | 4.4 | 5.3 | 5.6 | 6.1 | 6.0 | 6.9 | 6.5 | 7.1 | 4.5 | 6.9 | 4.5 | 6.0 |
| BRILLIANT | 7.4 | 6.8 | 6.8 | 4.0 | 6.4 | 5.3 | 6.1 | 5.5 | 6.3 | 7.1 | 6.5 | 4.7 | 6.1 | 4.6 | 6.0 |
| DLF 76-9037 | 7.2 | 6.9 | 7.0 | 4.2 | 6.2 | 5.7 | 6.2 | 5.3 | 6.2 | 7.2 | 7.0 | 3.9 | 6.2 | 4.2 | 6.0 |
| QUANTUM LEAP | 8.1 | 6.7 | 5.7 | 3.9 | 6.1 | 5.8 | 5.9 | 5.9 | 6.5 | 7.4 | 5.6 | 4.5 | 6.9 | 4.4 | 5.9 |
| LIBERATOR | 8.1 | 6.3 | 6.2 | 3.9 | 6.2 | 6.5 | 6.3 | 6.0 | 6.7 | 7.1 | 5.7 | 4.1 | 6.7 | 3.7 | 5.9 |
| APOLLO | 7.2 | 6.6 | 7.3 | 4.3 | 5.9 | 5.2 | 5.7 | 5.2 | 6.6 | 7.3 | 7.0 | 3.9 | 6.2 | 4.8 | 5.9 |
| NUGLADE | 8.0 | 6.0 | 5.7 | 4.2 | 6.2 | 6.2 | 6.2 | 5.8 | 6.7 | 6.9 | 5.5 | 4.4 | 7.0 | 4.9 | 5.9 |
| UNIQUE | 7.3 | 6.8 | 6.3 | 3.6 | 6.2 | 5.8 | 6.2 | 5.1 | 6.2 | 7.3 | 7.2 | 4.1 | 6.4 | 4.4 | 5.9 |
| J-2561 | 8.4 | 6.0 | 4.6 | 3.7 | 6.3 | 6.1 | 6.1 | 5.3 | 6.7 | 7.5 | 6.0 | 4.3 | 7.0 | 4.7 | 5.9 |
| BARONETTE (BA 81-058) | 8.1 | 7.0 | 6.8 | 4.3 | 5.9 | 5.5 | 6.2 | 5.3 | 6.1 | 6.9 | 5.3 | 4.5 | 6.4 | 4.3 | 5.9 |
| A97-1330 | 7.5 | 6.3 | 6.1 | 4.3 | 6.1 | 5.5 | 6.0 | 5.6 | 6.4 | 7.3 | 6.6 | 4.2 | 6.3 | 4.5 | 5.9 |
| RITA | 8.1 | 5.7 | 6.4 | 4.9 | 5.4 | 5.8 | 5.6 | 5.5 | 6.4 | 6.2 | 6.6 | 4.6 | 6.9 | 4.4 | 5.9 |
| ROYCE (A98-304) | 7.3 | 6.9 | 6.1 | 3.9 | 6.2 | 5.0 | 5.5 | 5.5 | 6.4 | 7.7 | 6.9 | 4.4 | 5.8 | 4.8 | 5.9 |
| B3-171 | 7.8 | 7.1 | 6.3 | 3.4 | 5.2 | 5.8 | 5.8 | 5.4 | 6.5 | 7.5 | 6.5 | 4.2 | 5.7 | 5.0 | 5.9 |

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|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EXCURSION (J-1648) | 7.7 | 7.3 | 4.9 | 4.1 | 6.2 | 5.7 | 6.2 | 5.6 | 6.3 | 6.8 | 6.0 | 4.0 | 7.0 | 4.4 | 5.9 |
| RUGBY II | 8.2 | 5.7 | 5.5 | 4.1 | 6.1 | 5.5 | 6.7 | 5.9 | 6.4 | 7.1 | 6.2 | 3.6 | 6.9 | 4.2 | 5.9 |
| SR 2284 (SRX 2284) | 8.2 | 7.1 | 6.0 | 4.0 | 4.9 | 5.9 | 5.1 | 5.8 | 6.3 | 7.2 | 6.2 | 4.3 | 6.3 | 4.7 | 5.9 |
| BAR PP 0471 | 7.3 | 7.0 | 6.0 | 4.0 | 5.7 | 5.4 | 6.3 | 5.4 | 6.4 | 6.9 | 6.3 | 4.1 | 6.3 | 4.5 | 5.8 |
| BAR PP 0573 | 8.1 | 6.6 | 5.5 | 4.1 | 6.1 | 5.7 | 5.7 | 5.5 | 6.4 | 6.6 | 6.5 | 4.3 | 6.4 | 4.0 | 5.8 |
| BA 82-288 | 8.1 | 6.8 | 5.5 | 4.3 | 5.1 | 6.4 | 6.3 | 5.8 | 6.3 | 6.2 | 5.8 | 4.2 | 5.6 | 4.4 | 5.8 |
| CHAMPLAIN (A98-1275) | 7.2 | 6.8 | 5.4 | 4.1 | 5.9 | 5.5 | 6.1 | 5.5 | 6.4 | 6.7 | 6.8 | 4.5 | 5.7 | 4.9 | 5.8 |
| PST-1QG-27 | 7.5 | 6.0 | 5.8 | 3.6 | 6.3 | 5.4 | 5.7 | 5.4 | 6.4 | 7.1 | 6.6 | 4.5 | 6.2 | 4.9 | 5.8 |
| PRO SEEDS - 453 | 7.6 | 6.8 | 6.1 | 4.1 | 5.2 | 5.8 | 6.2 | 5.9 | 6.2 | 7.3 | 5.8 | 4.4 | 6.3 | 4.3 | 5.8 |
| PST-161 | 8.0 | 6.8 | 5.4 | 4.3 | 4.9 | 6.2 | 5.7 | 5.8 | 6.0 | 6.2 | 6.4 | 4.1 | 6.6 | 4.6 | 5.8 |
| BLACKSBURG II (PST-1BMY) | 8.1 | 7.5 | 6.0 | 4.1 | 5.7 | 5.6 | 5.6 | 4.9 | 6.0 | 6.4 | 6.1 | 4.6 | 6.3 | 4.1 | 5.8 |
| HV 238 | 7.6 | 7.2 | 5.4 | 4.3 | 5.9 | 5.5 | 5.7 | 5.3 | 6.2 | 7.0 | 6.4 | 3.9 | 6.3 | 4.3 | 5.8 |
| PST-B5-89 | 7.7 | 5.6 | 6.4 | 3.6 | 5.1 | 6.3 | 5.4 | 4.8 | 6.5 | 7.9 | 6.8 | 4.1 | 6.3 | 4.4 | 5.8 |
| H92-203 | 7.2 | 6.6 | 5.9 | 4.4 | 5.6 | 5.5 | 6.0 | 5.4 | 6.2 | 6.7 | 6.7 | 4.1 | 6.2 | 4.3 | 5.8 |
| EVEREST | 7.8 | 5.1 | 4.5 | 3.9 | 6.4 | 5.7 | 5.7 | 5.5 | 6.7 | 8.0 | 6.2 | 4.1 | 6.9 | 4.3 | 5.8 |
| H94-293 | 7.8 | 5.5 | 5.7 | 4.0 | 5.9 | 5.1 | 6.5 | 5.2 | 6.5 | 7.4 | 6.2 | 3.7 | 6.3 | 4.9 | 5.8 |
| BAR PP 0566 | 8.3 | 6.3 | 5.4 | 4.4 | 5.9 | 6.1 | 5.4 | 4.7 | 6.2 | 6.8 | 6.1 | 4.5 | 6.8 | 3.7 | 5.8 |
| PICK 417 | 7.7 | 6.0 | 6.2 | 4.4 | 5.3 | 5.9 | 5.8 | 5.7 | 6.1 | 6.5 | 5.9 | 3.7 | 6.7 | 4.8 | 5.8 |
| A98-365 | 7.8 | 6.6 | 5.9 | 4.0 | 5.3 | 5.3 | 6.3 | 5.0 | 6.2 | 6.5 | 6.9 | 4.4 | 6.2 | 4.3 | 5.8 |
| CHICAGO II | 7.4 | 6.8 | 5.2 | 3.9 | 5.9 | 6.0 | 6.5 | 4.9 | 6.5 | 7.1 | 5.4 | 3.7 | 7.1 | 4.2 | 5.8 |
| BAR PP 0468 | 7.5 | 6.7 | 5.6 | 3.8 | 5.6 | 5.6 | 6.1 | 5.0 | 6.1 | 7.6 | 6.0 | 4.1 | 6.2 | 4.5 | 5.7 |
| ALPINE | 7.4 | 5.1 | 5.9 | 4.7 | 4.9 | 5.6 | 6.2 | 5.8 | 6.2 | 7.3 | 6.6 | 4.1 | 6.4 | 4.2 | 5.7 |
| CABERNET | 7.9 | 6.5 | 5.9 | 4.5 | 4.8 | 5.9 | 5.6 | 5.9 | 6.1 | 6.5 | 5.8 | 4.3 | 5.9 | 4.5 | 5.7 |
| J-2885 | 7.9 | 6.4 | 5.0 | 4.0 | 5.7 | 5.6 | 5.9 | 5.4 | 6.6 | 7.3 | 6.0 | 3.9 | 6.1 | 4.1 | 5.7 |
| SRX 26351 | 7.6 | 5.5 | 5.3 | 4.5 | 4.8 | 5.4 | 6.0 | 6.8 | 6.2 | 7.5 | 6.6 | 3.6 | 6.3 | 3.9 | 5.7 |
| GOLDSTAR (A98-296) | 7.7 | 6.4 | 5.7 | 4.5 | 5.2 | 5.8 | 5.8 | 5.7 | 6.0 | 6.8 | 6.2 | 3.5 | 6.0 | 4.6 | 5.7 |
| B3-185 | 7.7 | 6.8 | 5.8 | 3.7 | 5.6 | 6.2 | 6.1 | 5.2 | 5.9 | 7.2 | 6.2 | 3.7 | 5.8 | 4.2 | 5.7 |
| SERENE | 7.8 | 6.0 | 5.9 | 4.8 | 5.9 | 4.9 | 5.5 | 5.5 | 5.7 | 6.6 | 6.7 | 3.8 | 5.8 | 5.0 | 5.7 |
| PST-H6-150 | 7.5 | 5.8 | 5.5 | 3.7 | 5.9 | 5.8 | 5.9 | 5.6 | 6.2 | 7.2 | 6.5 | 4.1 | 6.2 | 3.8 | 5.7 |
| SHOWCASE | 8.2 | 5.9 | 5.6 | 3.7 | 5.7 | 6.1 | 5.7 | 5.2 | 6.1 | 7.3 | 6.7 | 3.8 | 5.8 | 4.0 | 5.7 |
| WILDWOOD | 7.7 | 6.0 | 5.6 | 5.1 | 5.1 | 5.1 | 5.3 | 6.0 | 6.3 | 6.2 | 6.1 | 4.1 | 6.4 | 4.8 | 5.7 |
| PST-B5-125 | 7.8 | 6.5 | 6.4 | 4.2 | 5.1 | 5.7 | 5.6 | 5.8 | 6.0 | 7.1 | 6.0 | 3.9 | 6.3 | 3.3 | 5.7 |
| A97-1409 | 8.1 | 5.6 | 5.3 | 4.3 | 5.2 | 5.7 | 5.7 | 6.0 | 5.9 | 6.4 | 5.9 | 4.1 | 6.6 | 4.8 | 5.7 |
| COVENTRY | 7.6 | 5.3 | 5.9 | 4.3 | 5.7 | 4.9 | 5.7 | 5.6 | 5.8 | 6.5 | 6.9 | 4.7 | 6.0 | 4.6 | 5.7 |
| SRX 2394 | 7.5 | 4.8 | 5.8 | 4.4 | 4.7 | 6.0 | 5.8 | 5.4 | 6.0 | 7.4 | 5.1 | 3.8 | 6.9 | 5.0 | 5.7 |
| A96-427 | 8.0 | 5.5 | 5.8 | 4.1 | 5.5 | 5.9 | 5.9 | 5.7 | 6.0 | 7.0 | 6.2 | 4.5 | 6.3 | 4.6 | 5.7 |
| BLUE RIDGE (A97-1449) | 7.9 | 5.7 | 5.1 | 4.0 | 6.1 | 6.2 | 4.8 | 5.0 | 5.5 | 7.1 | 6.1 | 4.0 | 6.7 | 4.9 | 5.7 |
| BARIS | 7.5 | 6.7 | 5.6 | 4.1 | 5.3 | 5.2 | 5.6 | 5.2 | 6.4 | 6.1 | 6.3 | 3.9 | 6.6 | 4.8 | 5.7 |
| SRX 2114 | 7.4 | 6.4 | 5.6 | 5.0 | 4.9 | 5.1 | 5.3 | 5.9 | 6.5 | 6.8 | 5.9 | 4.0 | 6.0 | 4.4 | 5.7 |
| JEFFERSON | 7.4 | 6.4 | 5.9 | 3.9 | 5.6 | 5.2 | 5.8 | 5.5 | 6.1 | 6.1 | 6.2 | 4.5 | 6.1 | 4.4 | 5.6 |
| ROYALE (A97-1336) | 7.4 | 5.0 | 5.0 | 3.4 | 5.0 | 5.7 | 6.2 | 6.2 | 5.8 | 7.7 | 6.3 | 3.9 | 6.2 | 4.9 | 5.6 |
| H92-558 | 8.2 | 6.5 | 6.0 | 4.3 | 5.3 | 5.1 | 5.2 | 4.8 | 6.6 | 6.7 | 5.3 | 3.7 | 6.6 | 4.5 | 5.6 |
| PICK 453 | 7.8 | 6.1 | 6.3 | 4.3 | 5.4 | 4.8 | 5.8 | 5.1 | 6.1 | 6.7 | 6.0 | 3.6 | 6.2 | 4.5 | 5.6 |
| HALLMARK | 7.8 | 5.6 | 5.3 | 4.5 | 5.2 | 5.2 | 5.5 | 5.8 | 6.3 | 6.8 | 6.3 | 3.7 | 6.2 | 4.5 | 5.6 |
| EAGLETON | 7.4 | 6.8 | 6.1 | 4.7 | 5.6 | 4.8 | 5.8 | 5.7 | 5.9 | 5.7 | 6.5 | 4.0 | 6.0 | 3.9 | 5.6 |
| IB7-308 | 7.3 | 6.4 | 5.1 | 3.9 | 5.2 | 6.2 | 5.3 | 5.4 | 6.1 | 7.5 | 5.2 | 4.3 | 6.2 | 4.4 | 5.6 |
| FAIRFAX | 7.6 | 6.4 | 6.5 | 4.5 | 5.3 | 4.0 | 5.6 | 5.0 | 6.1 | 6.3 | 6.6 | 3.9 | 6.2 | 4.4 | 5.6 |
| GOLDRUSH | 7.4 | 5.3 | 6.3 | 4.4 | 5.5 | 4.4 | 5.6 | 5.8 | 6.0 | 6.0 | 6.7 | 4.3 | 6.3 | 4.3 | 5.6 |
| SI A96-386 | 8.0 | 5.9 | 4.8 | 4.0 | 4.5 | 6.3 | 5.7 | 5.2 | 6.1 | 7.6 | 5.4 | 3.8 | 6.6 | 4.5 | 5.6 |
| RAMBO | 7.7 | 5.4 | 6.0 | 4.2 | 5.3 | 6.0 | 5.8 | 5.3 | 6.4 | 6.4 | 5.8 | 4.2 | 5.7 | 3.9 | 5.6 |
| BOUTIQUE | 7.8 | 6.0 | 4.5 | 4.8 | 5.6 | 5.9 | 5.9 | 5.4 | 6.0 | 7.0 | 4.5 | 4.0 | 6.2 | 4.5 | 5.6 |
| PST-YORK HARBOR 4 | 7.5 | 6.1 | 6.4 | 4.3 | 4.9 | 4.5 | 5.6 | 5.6 | 5.9 | 6.7 | 5.8 | 4.0 | 6.6 | 4.3 | 5.6 |
| BA 00-6001 | 7.8 | 6.7 | 5.0 | 3.5 | 5.6 | 5.6 | 5.1 | 5.3 | 6.4 | 6.9 | 6.0 | 3.9 | 6.4 | 3.8 | 5.6 |
| PP H 6370 | 7.4 | 5.9 | 5.9 | 4.3 | 4.9 | 5.3 | 5.4 | 4.9 | 6.1 | 6.6 | 6.6 | 4.0 | 6.0 | 4.6 | 5.6 |
| PST-222 | 7.4 | 5.3 | 5.5 | 3.9 | 5.5 | 5.6 | 5.5 | 5.5 | 5.7 | 6.6 | 5.8 | 4.1 | 6.9 | 4.6 | 5.6 |
| A96-451 | 7.1 | 6.7 | 5.1 | 4.2 | 5.4 | 5.8 | 6.6 | 5.1 | 6.1 | 6.5 | 5.5 | 3.7 | 5.6 | 4.3 | 5.6 |

| | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DLF 76-9036 | 7.3 | 6.1 | 5.7 | 4.4 | 4.9 | 5.0 | 5.2 | 6.0 | 5.8 | 6.3 | 6.5 | 4.2 | 6.1 | 4.2 | 5.6 |
| PST-1804 | 7.6 | 6.8 | 5.4 | 4.5 | 5.7 | 4.7 | 5.3 | 5.0 | 5.9 | 6.6 | 6.0 | 4.1 | 6.1 | 4.0 | 5.5 |
| SONOMA | 7.7 | 6.1 | 5.5 | 4.7 | 4.6 | 5.4 | 4.9 | 5.7 | 5.6 | 6.7 | 5.8 | 3.7 | 6.7 | 4.5 | 5.5 |
| MISTY | 7.7 | 5.0 | 5.5 | 4.5 | 5.1 | 5.1 | 6.1 | 5.7 | 5.6 | 6.2 | 6.5 | 3.8 | 6.2 | 4.5 | 5.5 |
| A96-739 | 7.5 | 6.1 | 5.3 | 4.5 | 5.2 | 5.6 | 5.5 | 5.0 | 6.0 | 5.9 | 5.6 | 3.9 | 6.2 | 4.2 | 5.5 |
| ALLURE | 8.1 | 5.8 | 5.3 | 4.5 | 5.5 | 3.9 | 5.2 | 5.2 | 5.9 | 6.3 | 7.1 | 4.0 | 6.2 | 4.5 | 5.5 |
| LAKESHORE (A93-200) | 7.8 | 5.8 | 4.7 | 3.4 | 5.9 | 4.9 | 6.0 | 5.4 | 6.0 | 6.3 | 6.4 | 3.9 | 6.4 | 4.5 | 5.5 |
| ASCOT | 8.3 | 4.2 | 5.8 | 3.9 | 5.1 | 4.6 | 6.7 | 5.8 | 6.2 | 7.5 | 5.5 | 3.7 | 6.1 | 3.9 | 5.5 |
| MONTE CARLO (A96-402) | 7.9 | 5.0 | 4.5 | 4.6 | 5.1 | 5.9 | 5.6 | 5.3 | 5.8 | 6.6 | 6.5 | 3.9 | 6.4 | 4.3 | 5.5 |
| PST-B3-170 | 7.4 | 5.5 | 5.6 | 4.0 | 5.6 | 5.4 | 5.9 | 5.5 | 6.2 | 5.7 | 5.7 | 3.9 | 6.6 | 4.5 | 5.5 |
| A98-183 | 7.9 | 6.4 | 4.4 | 3.8 | 5.7 | 6.0 | 4.9 | 5.3 | 6.3 | 6.8 | 5.4 | 3.7 | 6.4 | 4.2 | 5.5 |
| SHAMROCK | 7.7 | 5.1 | 5.6 | 4.6 | 5.6 | 4.8 | 5.4 | 4.8 | 5.6 | 6.3 | 6.2 | 3.7 | 6.7 | 5.1 | 5.5 |
| B4-128A | 6.9 | 5.0 | 5.3 | 4.0 | 5.2 | 5.5 | 5.6 | 5.5 | 6.2 | 6.9 | 6.5 | 4.3 | 5.8 | 4.6 | 5.5 |
| CHATEAU | 7.4 | 5.9 | 5.3 | 4.1 | 5.5 | 4.2 | 5.5 | 5.3 | 6.0 | 6.3 | 6.8 | 4.1 | 5.9 | 4.5 | 5.5 |
| CHAMPAGNE | 7.8 | 5.6 | 5.6 | 4.4 | 5.4 | 5.8 | 5.3 | 4.8 | 5.5 | 6.3 | 5.9 | 4.1 | 5.4 | 4.7 | 5.5 |
| BARONIE | 7.3 | 6.7 | 6.2 | 3.6 | 5.4 | 4.9 | 5.8 | 4.8 | 5.9 | 6.1 | 5.7 | 4.5 | 5.7 | 4.3 | 5.5 |
| LIMERICK | 7.3 | 5.1 | 5.0 | 4.4 | 5.2 | 4.3 | 5.4 | 5.6 | 6.0 | 6.5 | 6.5 | 5.2 | 6.6 | 3.7 | 5.5 |
| HV 140 | 7.7 | 5.3 | 5.3 | 3.9 | 5.0 | 4.7 | 5.6 | 6.0 | 6.5 | 6.3 | 6.0 | 3.9 | 5.8 | 3.8 | 5.5 |
| B5-144 | 7.8 | 6.3 | 5.3 | 3.9 | 5.6 | 4.2 | 5.3 | 4.9 | 5.5 | 6.1 | 6.7 | 4.2 | 6.3 | 4.5 | 5.5 |
| BORDEAUX | 7.5 | 5.0 | 5.3 | 4.0 | 5.1 | 5.9 | 5.5 | 5.3 | 6.0 | 6.8 | 4.9 | 4.2 | 6.8 | 4.4 | 5.5 |
| ABBAY | 7.7 | 5.5 | 6.3 | 4.1 | 4.9 | 4.7 | 5.4 | 5.9 | 5.6 | 5.8 | 6.3 | 3.8 | 6.3 | 4.2 | 5.5 |
| RAVEN | 7.4 | 6.2 | 5.7 | 4.0 | 5.6 | 4.0 | 5.3 | 5.6 | 5.7 | 5.8 | 6.1 | 4.7 | 6.3 | 4.0 | 5.5 |
| LIMOUSINE | 7.4 | 5.0 | 5.6 | 5.0 | 4.7 | 5.3 | 5.7 | 5.1 | 5.7 | 6.5 | 5.9 | 4.0 | 5.7 | 4.8 | 5.5 |
| A98-1028 | 7.4 | 6.5 | 4.9 | 4.2 | 5.6 | 4.9 | 5.8 | 5.1 | 5.6 | 6.5 | 6.0 | 3.9 | 5.9 | 4.0 | 5.4 |
| BARON | 7.5 | 4.6 | 4.8 | 4.7 | 5.4 | 5.1 | 4.8 | 5.5 | 6.1 | 6.3 | 5.9 | 4.0 | 6.7 | 4.4 | 5.4 |
| B5-45 | 7.3 | 5.5 | 5.3 | 3.9 | 5.4 | 4.5 | 5.5 | 5.3 | 5.9 | 6.3 | 6.3 | 4.2 | 6.0 | 4.3 | 5.4 |
| CHELSEA | 7.4 | 4.6 | 4.1 | 4.4 | 4.9 | 4.8 | 4.6 | 5.3 | 6.2 | 7.5 | 7.2 | 3.9 | 6.3 | 4.4 | 5.4 |
| LILY | 7.3 | 6.0 | 6.3 | 4.4 | 5.1 | 4.0 | 5.1 | 4.9 | 5.5 | 5.7 | 7.0 | 3.7 | 6.4 | 4.2 | 5.4 |
| BROOKLAWN | 7.8 | 5.9 | 4.8 | 4.4 | 5.2 | 4.9 | 5.2 | 4.7 | 5.9 | 6.7 | 6.1 | 3.7 | 5.8 | 4.5 | 5.4 |
| A98-881 | 7.9 | 5.0 | 5.1 | 4.5 | 5.2 | 4.7 | 5.1 | 5.3 | 5.1 | 6.2 | 6.3 | 3.9 | 6.3 | 4.6 | 5.4 |
| PST-B4-246 | 7.4 | 6.3 | 5.5 | 4.3 | 4.9 | 4.9 | 5.3 | 5.1 | 6.0 | 6.5 | 4.8 | 3.5 | 6.0 | 4.6 | 5.4 |
| MARQUIS | 7.6 | 5.3 | 6.4 | 3.4 | 5.1 | 4.8 | 5.2 | 5.3 | 5.8 | 6.1 | 5.5 | 4.3 | 6.2 | 4.3 | 5.4 |
| NORTH STAR | 7.2 | 4.4 | 5.1 | 3.9 | 5.0 | 5.0 | 5.6 | 5.6 | 6.7 | 6.5 | 5.7 | 4.1 | 6.1 | 4.4 | 5.4 |
| PST-604 | 7.6 | 5.7 | 4.6 | 3.5 | 4.9 | 6.1 | 5.6 | 4.7 | 5.6 | 6.3 | 6.2 | 4.2 | 6.4 | 3.7 | 5.4 |
| PST-108-79 | 7.7 | 5.2 | 4.3 | 3.6 | 5.1 | 4.9 | 4.6 | 6.3 | 6.4 | 7.2 | 6.2 | 3.9 | 6.0 | 3.7 | 5.4 |
| BARTITA | 7.5 | 5.5 | 4.3 | 4.0 | 5.3 | 4.5 | 5.2 | 5.3 | 5.7 | 6.5 | 6.7 | 3.4 | 6.6 | 4.6 | 5.4 |
| ENVICPA | 7.5 | 5.5 | 5.7 | 4.6 | 5.2 | 4.2 | 5.6 | 5.3 | 6.0 | 5.3 | 6.0 | 4.2 | 7.3 | 3.7 | 5.4 |
| BA 84-140 | 6.7 | 5.4 | 5.4 | 4.2 | 4.6 | 6.0 | 6.2 | 4.5 | 6.2 | 6.0 | 5.7 | 3.2 | 7.3 | 3.7 | 5.4 |
| B5-43 | 7.5 | 5.9 | 5.1 | 3.6 | 5.6 | 5.8 | 5.3 | 4.8 | 5.8 | 6.4 | 6.4 | 3.8 | 5.6 | 4.2 | 5.3 |
| PST-H5-35 | 7.5 | 5.5 | 4.4 | 3.6 | 5.9 | 5.1 | 5.0 | 5.0 | 5.9 | 7.1 | 5.0 | 3.1 | 6.6 | 4.4 | 5.3 |
| BARITONE | 7.2 | 5.6 | 5.0 | 3.5 | 5.1 | 4.8 | 5.4 | 5.0 | 6.6 | 6.1 | 6.0 | 4.0 | 6.0 | 4.4 | 5.3 |
| JULIA | 7.3 | 5.8 | 5.3 | 4.1 | 4.9 | 4.6 | 5.4 | 5.1 | 6.2 | 6.0 | 5.5 | 3.3 | 6.3 | 4.7 | 5.3 |
| PP H 6366 | 6.8 | 4.4 | 5.5 | 3.9 | 4.5 | 4.9 | 5.6 | 5.2 | 5.9 | 7.4 | 6.5 | 3.9 | 5.2 | 4.5 | 5.3 |
| A98-139 | 7.8 | 6.1 | 5.6 | 3.8 | 4.3 | 5.1 | 5.6 | 5.1 | 5.8 | 5.8 | 5.0 | 3.8 | 5.8 | 4.2 | 5.3 |
| BH 00-6002 | 7.0 | 5.7 | 6.0 | 3.7 | 4.8 | 4.4 | 5.7 | 4.9 | 6.0 | 5.9 | 6.2 | 4.0 | 6.1 | 4.0 | 5.3 |
| SFX 27921 | 7.1 | 3.9 | 4.5 | 4.5 | 4.8 | 5.7 | 5.1 | 5.0 | 6.0 | 6.8 | 5.9 | 3.0 | 6.9 | 4.2 | 5.2 |
| DLF 76-9032 | 7.1 | 5.7 | 4.8 | 4.0 | 5.2 | 5.2 | 5.4 | 4.6 | 6.5 | 6.3 | 5.0 | 3.7 | 5.9 | 3.7 | 5.2 |
| PP H 7832 | 7.6 | 4.0 | 3.9 | 4.0 | 4.9 | 5.8 | 5.4 | 4.8 | 6.2 | 6.4 | 5.6 | 3.6 | 6.9 | 3.9 | 5.2 |
| A97-857 | 7.5 | 4.8 | 5.2 | 3.9 | 5.1 | 5.6 | 5.8 | 4.2 | 6.4 | 6.1 | 5.7 | 3.4 | 5.7 | 4.2 | 5.2 |
| NA-K991 | 7.2 | 4.6 | 4.9 | 4.3 | 5.3 | 5.7 | 5.1 | 4.8 | 6.4 | 6.4 | 4.0 | 3.7 | 6.3 | 4.0 | 5.2 |
| JULIUS | 6.6 | 5.3 | 4.6 | 4.2 | 4.7 | 4.7 | 4.8 | 4.5 | 6.3 | 7.2 | 5.8 | 3.5 | 5.1 | 4.7 | 5.1 |
| BOOMERANG | 8.1 | 4.3 | 4.0 | 4.3 | 4.4 | 6.1 | 4.9 | 4.3 | 5.8 | 6.6 | 5.1 | 3.3 | 6.8 | 3.7 | 5.1 |
| WASHINGTON | 7.1 | 5.5 | 5.3 | 4.1 | 4.6 | 4.7 | 5.7 | 4.5 | 5.4 | 5.1 | 6.0 | 3.7 | 5.9 | 3.8 | 5.1 |
| A98-407 | 7.5 | 5.0 | 3.9 | 4.0 | 4.8 | 4.9 | 5.5 | 4.4 | 5.7 | 6.8 | 5.4 | 3.4 | 5.4 | 4.1 | 5.1 |
| BH 00-6003 | 7.8 | 6.2 | 4.9 | 3.6 | 3.9 | 5.5 | 4.8 | 4.2 | 6.2 | 5.6 | 4.8 | 3.7 | 6.1 | 3.5 | 5.1 |
| PP H 7907 | 7.6 | 4.0 | 4.0 | 4.6 | 3.9 | 5.5 | 4.8 | 4.7 | 4.7 | 6.5 | 5.9 | 3.3 | 6.2 | 3.8 | 5.0 |

| | | | | | | | | | | | | | | | |
|-------------|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|
| WELLINGTON | 7.6 | 5.4 | 5.7 | 4.0 | 4.3 | 4.3 | 5.1 | 4.2 | 5.8 | 5.3 | 5.8 | 3.9 | 5.6 | 3.5 | 5.0 |
| BLUE KNIGHT | 6.8 | 3.5 | 4.0 | 4.2 | 5.1 | 4.7 | 5.5 | 5.2 | 4.9 | 6.3 | 6.4 | 3.1 | 6.3 | 4.0 | 5.0 |
| A96-742 | 6.8 | 5.3 | 5.6 | 3.8 | 4.6 | 4.0 | 5.5 | 4.3 | 5.9 | 5.1 | 5.7 | 3.8 | 5.6 | 4.1 | 5.0 |
| BARZAN | 7.6 | 4.5 | 3.7 | 3.4 | 4.7 | 4.7 | 4.2 | 5.4 | 6.5 | 5.9 | 6.0 | 3.3 | 5.7 | 4.1 | 5.0 |
| DLF 76-9034 | 6.7 | 5.8 | 4.2 | 4.7 | 4.6 | 4.3 | 4.3 | 3.9 | 6.0 | 5.4 | 5.6 | 4.0 | 5.1 | 3.8 | 4.9 |
| JEWEL | 7.5 | 5.5 | 5.0 | 4.4 | 4.9 | 4.5 | 5.6 | 4.0 | 6.0 | 4.1 | 4.6 | 3.6 | 5.6 | 2.6 | 4.8 |
| 99AN-53 | 7.9 | 5.0 | 4.7 | 3.1 | 4.7 | 4.7 | 4.8 | 4.7 | 4.8 | 6.3 | 4.9 | 3.0 | 5.8 | 3.2 | 4.8 |
| PP H 7929 | 7.2 | 3.4 | 3.5 | 3.6 | 4.3 | 5.0 | 4.4 | 4.9 | 5.6 | 6.5 | 5.2 | 3.6 | 5.8 | 3.8 | 4.8 |
| KENBLUE | 7.3 | 4.4 | 5.3 | 4.4 | 4.4 | 3.2 | 5.3 | 3.9 | 5.5 | 4.5 | 6.2 | 3.7 | 5.1 | 3.1 | 4.7 |
| NA-K992 | 6.7 | 5.1 | 4.5 | 3.8 | 4.3 | 4.7 | 3.8 | 3.7 | 5.9 | 5.5 | 5.3 | 3.7 | 5.4 | 3.1 | 4.7 |
| CVB-20631 | 6.4 | 3.5 | 3.8 | 3.0 | 4.2 | 4.6 | 3.8 | 5.3 | 5.9 | 7.0 | 5.1 | 3.3 | 6.4 | 3.7 | 4.7 |
| BODACIOUS | 7.8 | 3.8 | 4.1 | 3.3 | 4.6 | 5.4 | 4.4 | 3.6 | 5.7 | 5.8 | 4.0 | 3.2 | 5.8 | 3.6 | 4.7 |
| SRX QG245 | 7.3 | 3.8 | 4.5 | 4.4 | 4.8 | 3.9 | 4.6 | 4.7 | 4.0 | 5.3 | 5.0 | 3.1 | 6.1 | 3.5 | 4.6 |
| GO-9LM9 | 6.8 | 3.6 | 5.2 | 3.6 | 4.6 | 4.1 | 4.9 | 3.7 | 4.2 | 4.0 | 4.9 | 3.3 | 5.7 | 2.9 | 4.4 |
| LSD VALUE | 0.9 | 1.2 | 1.1 | 1.1 | 1.1 | 0.8 | 0.8 | 0.7 | 0.6 | 0.9 | 0.9 | 0.7 | 1.0 | 0.9 | 0.2 |
| C.V. (%) | 7.1 | 12.8 | 12.5 | 16.9 | 13.0 | 9.4 | 8.9 | 8.4 | 6.1 | 8.0 | 9.5 | 11.4 | 10.0 | 12.4 | 10.3 |

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.

* SCHEDULE B - 1 - 2 INCH MOWING HEIGHT 3 - 4 lbs. N/1000 FT2/YEAR IRRIGATION TO PREVENT DORMANCY

#200300008

Table 9.

MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS
GROWN AT SEVEN LOCATIONS 1/
IN THE NORTHEAST REGION
2001 DATA

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

| NAME | MA1 | ME1 | NJ1 | NJ2 | NY1 | PA1 | RI1 | MEAN |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|------|
| AWARD | 7.1 | 7.2 | 6.8 | 6.0 | 5.7 | 7.9 | 7.6 | 6.9 |
| MIDNIGHT II (A98-739) | 7.3 | 7.3 | 6.5 | 6.3 | 5.8 | 8.3 | 6.7 | 6.9 |
| J-1515 | 7.2 | 7.5 | 6.4 | 5.8 | 5.6 | 7.6 | 7.3 | 6.8 |
| J-1513 | 7.2 | 7.3 | 6.3 | 5.8 | 5.5 | 8.1 | 7.1 | 6.8 |
| UNKNOWN | 7.1 | 6.9 | 6.5 | 6.8 | 5.4 | 7.7 | 6.8 | 6.7 |
| IMPACT | 7.2 | 6.8 | 7.0 | 6.3 | 5.7 | 8.0 | 6.2 | 6.7 |
| J-1420 | 7.3 | 6.7 | 6.4 | 5.8 | 5.7 | 8.1 | 6.9 | 6.7 |
| BEDAZZLED | 7.4 | 7.1 | 6.5 | 6.1 | 6.0 | 7.1 | 6.7 | 6.7 |
| BARRISTER (J-1655) | 7.3 | 6.8 | 6.5 | 6.3 | 5.5 | 7.9 | 6.6 | 6.7 |
| LANGARA | 7.4 | 7.0 | 6.3 | 6.4 | 5.5 | 7.6 | 6.7 | 6.7 |
| J-1368 | 7.0 | 7.2 | 6.4 | 6.1 | 5.4 | 8.2 | 6.3 | 6.7 |
| J-2695 | 7.0 | 7.2 | 7.0 | 6.1 | 5.5 | 7.5 | 6.2 | 6.7 |
| MOONLIGHT | 7.0 | 7.2 | 7.1 | 6.0 | 5.5 | 7.6 | 6.3 | 6.7 |
| ROYALE (A97-1336) | 6.8 | 6.9 | 6.6 | 6.2 | 5.9 | 7.7 | 6.3 | 6.6 |
| ARCADIA | 7.0 | 7.1 | 6.6 | 6.2 | 5.6 | 8.0 | 5.9 | 6.6 |
| ODYSSEY | 7.2 | 6.2 | 6.5 | 6.0 | 5.5 | 7.7 | 7.0 | 6.6 |
| TSUNAMI (J-2487) | 7.2 | 6.8 | 6.9 | 6.1 | 5.6 | 7.3 | 6.1 | 6.6 |
| J-1838 | 7.3 | 6.9 | 6.9 | 6.3 | 5.5 | 7.3 | 6.0 | 6.6 |
| MIDNIGHT | 7.3 | 6.9 | 6.6 | 6.3 | 5.4 | 7.3 | 6.1 | 6.6 |
| SRX 26351 | 6.8 | 7.1 | 5.8 | 6.8 | 5.3 | 7.5 | 6.6 | 6.5 |
| TOTAL ECLIPSE | 7.3 | 6.7 | 6.6 | 6.0 | 5.5 | 7.1 | 6.6 | 6.5 |
| ROYCE (A98-304) | 7.2 | 6.9 | 6.1 | 5.5 | 5.3 | 7.7 | 6.9 | 6.5 |
| BEYOND (J-1880) | 7.3 | 7.4 | 6.6 | 6.1 | 5.0 | 7.5 | 5.9 | 6.5 |
| EVERGLADE | 7.3 | 6.7 | 6.0 | 5.7 | 5.4 | 7.7 | 6.8 | 6.5 |
| RUGBY II | 7.5 | 6.8 | 6.3 | 5.9 | 5.6 | 7.1 | 6.2 | 6.5 |
| MOON SHADOW (PICK 113-3) | 6.9 | 7.3 | 5.8 | 6.0 | 5.5 | 7.4 | 6.4 | 6.5 |
| J-2890 | 7.2 | 6.1 | 6.6 | 6.1 | 5.7 | 7.5 | 6.1 | 6.5 |
| BLACKSTONE | 7.0 | 7.0 | 6.2 | 6.4 | 5.5 | 6.7 | 6.4 | 6.5 |
| FREEDOM II | 7.1 | 7.4 | 5.4 | 6.1 | 5.6 | 7.6 | 6.0 | 6.5 |
| PST-1701 | 7.0 | 7.1 | 5.8 | 6.6 | 5.4 | 6.2 | 7.0 | 6.4 |
| BLUESTONE (PST-731) | 7.3 | 6.2 | 6.8 | 6.0 | 5.4 | 7.7 | 5.8 | 6.4 |
| UNIQUE | 7.4 | 7.2 | 5.5 | 5.1 | 5.3 | 7.3 | 7.2 | 6.4 |
| B3-171 | 7.2 | 7.2 | 5.8 | 5.4 | 5.2 | 7.5 | 6.5 | 6.4 |
| APOLLO | 7.3 | 7.3 | 5.5 | 5.2 | 5.2 | 7.3 | 7.0 | 6.4 |
| EVEREST | 7.0 | 6.8 | 5.7 | 5.5 | 5.5 | 8.0 | 6.2 | 6.4 |
| QUANTUM LEAP | 7.0 | 6.8 | 6.5 | 5.9 | 5.5 | 7.4 | 5.6 | 6.4 |
| BRILLIANT | 7.4 | 6.9 | 5.6 | 5.5 | 5.8 | 7.1 | 6.5 | 6.4 |
| PST-B5-89 | 6.9 | 6.9 | 6.0 | 4.8 | 5.4 | 7.9 | 6.8 | 6.4 |
| ALPINE | 6.9 | 6.8 | 6.0 | 5.8 | 5.3 | 7.3 | 6.6 | 6.4 |
| IB7-308 | 7.0 | 7.3 | 6.3 | 5.4 | 5.8 | 7.5 | 5.2 | 6.4 |
| HALLMARK | 6.9 | 6.8 | 6.2 | 5.8 | 5.5 | 6.8 | 6.3 | 6.3 |
| PRINCETON 105 | 7.2 | 6.5 | 5.5 | 6.0 | 5.5 | 6.5 | 7.1 | 6.3 |
| J-2561 | 6.9 | 6.7 | 6.3 | 5.3 | 5.5 | 7.5 | 6.0 | 6.3 |
| SR 2284 (SRX 2284) | 7.0 | 7.1 | 5.5 | 5.8 | 5.4 | 7.2 | 6.2 | 6.3 |
| A97-1330 | 7.0 | 6.9 | 5.3 | 5.6 | 5.5 | 7.3 | 6.6 | 6.3 |
| A97-1432 | 7.2 | 7.5 | 5.9 | 6.0 | 5.5 | 7.0 | 5.2 | 6.3 |
| B4-128A | 7.2 | 7.3 | 5.2 | 5.5 | 5.5 | 6.9 | 6.5 | 6.3 |
| MONTE CARLO (A96-402) | 6.7 | 7.0 | 6.1 | 5.3 | 5.8 | 6.6 | 6.5 | 6.3 |
| MALLARD (A97-1439) | 7.1 | 6.9 | 5.8 | 5.6 | 5.0 | 7.1 | 6.6 | 6.3 |
| LIBERATOR | 7.0 | 6.4 | 6.6 | 6.0 | 5.4 | 7.1 | 5.7 | 6.3 |
| A97-1715 | 6.9 | 6.6 | 5.9 | 5.6 | 5.9 | 7.0 | 6.2 | 6.3 |
| SERENE | 7.0 | 6.9 | 5.8 | 5.5 | 5.4 | 6.6 | 6.7 | 6.3 |
| BAR PP 0468 | 7.5 | 7.1 | 5.7 | 5.0 | 5.1 | 7.6 | 6.0 | 6.3 |
| PST-161 | 6.9 | 6.8 | 6.0 | 5.8 | 5.8 | 6.2 | 6.4 | 6.3 |
| H94-293 | 7.1 | 6.7 | 5.9 | 5.2 | 5.4 | 7.4 | 6.2 | 6.3 |
| BAR PP 0471 | 7.0 | 6.9 | 5.4 | 5.4 | 5.8 | 6.9 | 6.3 | 6.3 |
| SHOWCASE | 7.2 | 6.6 | 5.2 | 5.2 | 5.5 | 7.3 | 6.7 | 6.3 |
| PST-108-79 | 6.8 | 6.9 | 4.9 | 6.3 | 5.4 | 7.2 | 6.2 | 6.2 |
| HV 238 | 6.9 | 6.6 | 5.8 | 5.3 | 5.7 | 7.0 | 6.4 | 6.2 |
| DLF 76-9037 | 7.0 | 6.4 | 5.3 | 5.3 | 5.4 | 7.2 | 7.0 | 6.2 |
| B3-185 | 7.1 | 6.6 | 5.5 | 5.2 | 5.7 | 7.2 | 6.2 | 6.2 |
| PST-1QG-27 | 7.0 | 6.6 | 5.5 | 5.4 | 5.3 | 7.1 | 6.6 | 6.2 |
| PRO SEEDS - 453 | 7.0 | 6.3 | 5.6 | 5.9 | 5.7 | 7.3 | 5.8 | 6.2 |
| ABBEY | 7.1 | 7.1 | 5.5 | 5.9 | 5.9 | 5.8 | 6.3 | 6.2 |

| | | | | | | | | |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| NUGLADE | 7.1 | 6.6 | 6.2 | 5.8 | 5.4 | 6.9 | 5.5 | 6.2 |
| COVENTRY | 6.9 | 6.7 | 5.4 | 5.6 | 5.5 | 6.5 | 6.9 | 6.2 |
| A96-427 | 6.9 | 6.6 | 5.6 | 5.7 | 5.4 | 7.0 | 6.2 | 6.2 |
| J-2885 | 7.1 | 6.7 | 5.6 | 5.4 | 5.3 | 7.3 | 6.0 | 6.2 |
| PICK-232 | 6.9 | 7.1 | 5.5 | 5.2 | 5.4 | 6.9 | 6.5 | 6.2 |
| PST-B5-125 | 6.9 | 6.9 | 5.5 | 5.8 | 5.3 | 7.1 | 6.0 | 6.2 |
| SRX 2394 | 7.0 | 7.1 | 5.8 | 5.4 | 5.7 | 7.4 | 5.1 | 6.2 |
| CHELSEA | 6.9 | 6.9 | 4.3 | 5.3 | 5.2 | 7.5 | 7.2 | 6.2 |
| H92-203 | 7.2 | 6.6 | 5.3 | 5.4 | 5.4 | 6.7 | 6.7 | 6.2 |
| RITA | 6.7 | 6.9 | 5.8 | 5.5 | 5.5 | 6.2 | 6.6 | 6.2 |
| GOLDSTAR (A98-296) | 6.8 | 6.7 | 5.8 | 5.7 | 5.1 | 6.8 | 6.2 | 6.2 |
| HV 140 | 6.5 | 6.6 | 6.0 | 6.0 | 5.9 | 6.3 | 6.0 | 6.2 |
| ARROW (A97-1567) | 7.0 | 6.8 | 5.4 | 5.3 | 5.7 | 7.1 | 5.8 | 6.2 |
| GOLDRUSH | 7.1 | 6.8 | 5.5 | 5.8 | 5.3 | 6.0 | 6.7 | 6.2 |
| PP H 6366 | 7.3 | 5.9 | 5.0 | 5.2 | 5.7 | 7.4 | 6.5 | 6.2 |
| SRX 2114 | 7.1 | 6.5 | 5.7 | 5.9 | 5.3 | 6.8 | 5.9 | 6.2 |
| BLUE RIDGE (A97-1449) | 6.9 | 7.2 | 5.4 | 5.0 | 5.3 | 7.1 | 6.1 | 6.2 |
| CHAMPLAIN (A98-1275) | 7.0 | 6.8 | 5.4 | 5.5 | 4.9 | 6.7 | 6.8 | 6.2 |
| EXCURSION (J-1648) | 7.1 | 6.1 | 6.0 | 5.6 | 5.6 | 6.8 | 6.0 | 6.2 |
| ALLURE | 6.8 | 6.7 | 5.3 | 5.2 | 5.6 | 6.3 | 7.1 | 6.1 |
| BAR PP 0573 | 6.9 | 6.7 | 5.0 | 5.5 | 5.8 | 6.6 | 6.5 | 6.1 |
| SONOMA | 7.1 | 7.1 | 5.1 | 5.7 | 5.4 | 6.7 | 5.8 | 6.1 |
| BORDEAUX | 7.1 | 7.2 | 6.0 | 5.3 | 5.5 | 6.8 | 4.9 | 6.1 |
| DLF 76-9036 | 6.8 | 6.4 | 5.6 | 6.0 | 5.3 | 6.3 | 6.5 | 6.1 |
| MISTY | 7.0 | 6.8 | 5.2 | 5.7 | 5.4 | 6.2 | 6.5 | 6.1 |
| ASCOT | 6.8 | 6.9 | 5.0 | 5.8 | 5.3 | 7.5 | 5.5 | 6.1 |
| A98-365 | 6.9 | 6.9 | 5.2 | 5.0 | 5.5 | 6.5 | 6.9 | 6.1 |
| LIMERICK | 6.7 | 6.3 | 5.2 | 5.6 | 6.1 | 6.5 | 6.5 | 6.1 |
| EAGLETON | 7.3 | 6.2 | 6.0 | 5.7 | 5.4 | 5.7 | 6.5 | 6.1 |
| PST-H6-150 | 7.0 | 6.3 | 5.0 | 5.6 | 5.2 | 7.2 | 6.5 | 6.1 |
| PICK 453 | 7.0 | 6.8 | 5.5 | 5.1 | 5.7 | 6.7 | 6.0 | 6.1 |
| PST-222 | 7.1 | 6.9 | 5.1 | 5.5 | 5.5 | 6.6 | 5.8 | 6.1 |
| WILDWOOD | 7.0 | 6.8 | 5.4 | 6.0 | 5.1 | 6.2 | 6.1 | 6.1 |
| BA 82-288 | 6.7 | 6.9 | 5.6 | 5.8 | 5.5 | 6.2 | 5.8 | 6.1 |
| BA 00-6001 | 6.8 | 6.6 | 5.6 | 5.3 | 5.3 | 6.9 | 6.0 | 6.1 |
| CABERNET | 6.6 | 6.1 | 6.3 | 5.9 | 5.3 | 6.5 | 5.8 | 6.1 |
| A97-1409 | 6.9 | 6.9 | 5.6 | 6.0 | 4.8 | 6.4 | 5.9 | 6.1 |
| A98-1028 | 6.9 | 7.0 | 5.6 | 5.1 | 5.3 | 6.5 | 6.0 | 6.0 |
| BOUTIQUE | 7.1 | 6.4 | 6.4 | 5.4 | 5.5 | 7.0 | 4.5 | 6.0 |
| BARTITIA | 7.0 | 6.1 | 5.3 | 5.3 | 5.4 | 6.5 | 6.7 | 6.0 |
| B5-45 | 6.5 | 7.4 | 5.3 | 5.3 | 5.2 | 6.3 | 6.3 | 6.0 |
| PST-YORK HARBOR 4 | 6.8 | 6.9 | 5.4 | 5.6 | 5.0 | 6.7 | 5.8 | 6.0 |
| SI A96-386 | 7.0 | 6.1 | 5.6 | 5.2 | 5.3 | 7.6 | 5.4 | 6.0 |
| JULIUS | 7.3 | 6.9 | 4.7 | 4.5 | 5.8 | 7.2 | 5.8 | 6.0 |
| PST-1804 | 6.7 | 6.6 | 5.4 | 5.0 | 5.8 | 6.6 | 6.0 | 6.0 |
| BROOKLAWN | 6.8 | 6.7 | 5.8 | 4.7 | 5.4 | 6.7 | 6.1 | 6.0 |
| BLUE KNIGHT | 7.0 | 6.2 | 5.7 | 5.2 | 5.4 | 6.3 | 6.4 | 6.0 |
| PST-B3-170 | 7.1 | 7.4 | 5.4 | 5.5 | 5.3 | 5.7 | 5.7 | 6.0 |
| LILY | 6.5 | 6.5 | 5.6 | 4.9 | 5.8 | 5.7 | 7.0 | 6.0 |
| CHICAGO II | 6.9 | 6.8 | 5.6 | 4.9 | 5.5 | 7.1 | 5.4 | 6.0 |
| PICK 417 | 6.9 | 6.9 | 5.0 | 5.7 | 5.1 | 6.5 | 5.9 | 6.0 |
| FAIRFAX | 6.6 | 6.6 | 5.2 | 5.0 | 5.6 | 6.3 | 6.6 | 6.0 |
| A98-881 | 6.5 | 6.4 | 5.8 | 5.3 | 5.5 | 6.2 | 6.3 | 6.0 |
| BAR PP 0566 | 6.9 | 6.9 | 5.0 | 4.7 | 5.6 | 6.8 | 6.1 | 6.0 |
| H92-558 | 6.9 | 7.2 | 5.6 | 4.8 | 5.5 | 6.7 | 5.3 | 6.0 |
| SHAMROCK | 6.6 | 6.6 | 5.9 | 4.8 | 5.6 | 6.3 | 6.2 | 6.0 |
| A96-739 | 7.0 | 7.4 | 5.9 | 5.0 | 5.2 | 5.9 | 5.6 | 6.0 |
| A96-451 | 7.0 | 7.0 | 5.0 | 5.1 | 5.6 | 6.5 | 5.5 | 6.0 |
| RAMBO | 7.2 | 5.9 | 5.7 | 5.3 | 5.6 | 6.4 | 5.8 | 6.0 |
| A98-183 | 6.9 | 7.0 | 5.4 | 5.3 | 5.1 | 6.8 | 5.4 | 6.0 |
| CHATEAU | 6.7 | 6.4 | 4.9 | 5.3 | 5.4 | 6.3 | 6.8 | 6.0 |
| RAVEN | 6.7 | 6.6 | 5.5 | 5.6 | 5.5 | 5.8 | 6.1 | 6.0 |
| LAKESHORE (A93-200) | 6.9 | 6.0 | 5.4 | 5.4 | 5.2 | 6.3 | 6.4 | 6.0 |
| B5-144 | 6.5 | 6.9 | 4.8 | 4.9 | 5.7 | 6.1 | 6.7 | 6.0 |
| BARON | 7.0 | 5.8 | 5.4 | 5.5 | 5.7 | 6.3 | 5.9 | 5.9 |
| BLACKSBURG II (PST-1BMY) | 6.8 | 6.6 | 5.1 | 4.9 | 5.5 | 6.4 | 6.1 | 5.9 |
| B5-43 | 6.6 | 6.8 | 4.7 | 4.8 | 5.7 | 6.4 | 6.4 | 5.9 |
| BA 83-113 | 6.9 | 6.7 | 4.7 | 5.1 | 5.4 | 6.7 | 5.9 | 5.9 |
| NORTH STAR | 6.8 | 5.9 | 5.3 | 5.6 | 5.5 | 6.5 | 5.7 | 5.9 |
| BA 84-140 | 6.8 | 7.5 | 5.5 | 4.5 | 5.5 | 6.0 | 5.7 | 5.9 |
| PP H 6370 | 6.5 | 6.4 | 5.0 | 4.9 | 5.4 | 6.6 | 6.6 | 5.9 |
| BARONETTE (BA 81-058) | 6.5 | 6.6 | 5.1 | 5.3 | 5.6 | 6.9 | 5.3 | 5.9 |
| PST-B4-246 | 7.1 | 7.1 | 5.2 | 5.1 | 5.5 | 6.5 | 4.8 | 5.9 |

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|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| JEFFERSON | 6.8 | 5.9 | 5.0 | 5.5 | 5.6 | 6.1 | 6.2 | 5.9 |
| JULIA | 7.0 | 6.9 | 5.2 | 5.1 | 5.5 | 6.0 | 5.5 | 5.9 |
| LIMOUSINE | 7.0 | 6.4 | 4.7 | 5.1 | 5.5 | 6.5 | 5.9 | 5.9 |
| BH 00-6002 | 6.9 | 6.7 | 5.0 | 4.9 | 5.5 | 5.9 | 6.2 | 5.9 |
| MARQUIS | 6.9 | 6.4 | 5.1 | 5.3 | 5.7 | 6.1 | 5.5 | 5.9 |
| PST-H5-35 | 6.6 | 6.5 | 5.2 | 5.0 | 5.5 | 7.1 | 5.0 | 5.8 |
| SRX 27921 | 5.4 | 7.2 | 5.2 | 5.0 | 5.3 | 6.8 | 5.9 | 5.8 |
| PP H 7907 | 6.7 | 6.6 | 4.8 | 4.7 | 5.4 | 6.5 | 5.9 | 5.8 |
| CHAMPAGNE | 6.7 | 6.5 | 4.7 | 4.8 | 5.8 | 6.3 | 5.9 | 5.8 |
| PP H 7832 | 6.9 | 6.1 | 5.3 | 4.8 | 5.3 | 6.4 | 5.6 | 5.8 |
| BARIRIS | 6.8 | 5.7 | 5.0 | 5.2 | 5.3 | 6.1 | 6.3 | 5.8 |
| ENVICTA | 6.9 | 6.2 | 5.3 | 5.3 | 5.5 | 5.3 | 6.0 | 5.8 |
| PST-604 | 6.5 | 6.3 | 4.7 | 4.7 | 5.4 | 6.3 | 6.2 | 5.7 |
| DLF 76-9032 | 7.1 | 6.3 | 4.9 | 4.6 | 5.9 | 6.3 | 5.0 | 5.7 |
| BARZAN | 6.4 | 6.1 | 5.0 | 5.4 | 5.3 | 5.9 | 6.0 | 5.7 |
| BOOMERANG | 6.4 | 7.1 | 4.8 | 4.3 | 5.9 | 6.6 | 5.1 | 5.7 |
| BARITONE | 6.9 | 6.6 | 4.1 | 5.0 | 5.2 | 6.1 | 6.0 | 5.7 |
| A98-407 | 7.0 | 6.3 | 4.1 | 4.4 | 5.6 | 6.8 | 5.4 | 5.7 |
| BARONIE | 7.2 | 6.3 | 4.1 | 4.8 | 4.9 | 6.1 | 5.7 | 5.6 |
| A97-857 | 6.1 | 6.2 | 5.0 | 4.2 | 5.5 | 6.1 | 5.7 | 5.5 |
| CVB-20631 | 6.7 | 5.3 | 3.9 | 5.3 | 5.2 | 7.0 | 5.1 | 5.5 |
| NA-K991 | 6.6 | 6.2 | 4.8 | 4.8 | 5.5 | 6.4 | 4.0 | 5.5 |
| A98-139 | 6.5 | 5.7 | 4.7 | 5.1 | 5.5 | 5.8 | 5.0 | 5.5 |
| 99AN-53 | 6.5 | 5.9 | 4.2 | 4.7 | 5.6 | 6.3 | 4.9 | 5.4 |
| PP H 7929 | 6.4 | 6.1 | 3.8 | 4.9 | 5.0 | 6.5 | 5.2 | 5.4 |
| A96-742 | 6.6 | 6.2 | 4.2 | 4.3 | 5.5 | 5.1 | 5.7 | 5.4 |
| SRX QG245 | 6.4 | 6.2 | 4.5 | 4.7 | 5.3 | 5.3 | 5.0 | 5.4 |
| WASHINGTON | 6.6 | 5.8 | 4.0 | 4.5 | 5.3 | 5.1 | 6.0 | 5.3 |
| DLF 76-9034 | 6.6 | 6.1 | 3.6 | 3.9 | 5.7 | 5.4 | 5.6 | 5.3 |
| KENBLUE | 5.9 | 6.2 | 4.4 | 3.9 | 5.3 | 4.5 | 6.2 | 5.2 |
| WELLINGTON | 5.9 | 5.8 | 3.9 | 4.2 | 5.2 | 5.3 | 5.8 | 5.2 |
| BH 00-6003 | 5.8 | 6.4 | 3.7 | 4.2 | 5.3 | 5.6 | 4.8 | 5.1 |
| BODACIOUS | 6.1 | 5.9 | 4.0 | 3.6 | 5.8 | 5.8 | 4.0 | 5.0 |
| NA-K992 | 5.9 | 6.1 | 3.3 | 3.7 | 5.5 | 5.5 | 5.3 | 5.0 |
| JEWEL | 6.0 | 5.8 | 4.2 | 4.0 | 5.5 | 4.1 | 4.6 | 4.9 |
| GO-9LM9 | 5.1 | 5.1 | 3.8 | 3.7 | 5.4 | 4.0 | 4.9 | 4.6 |
| LSD VALUE | 0.4 | 1.0 | 0.7 | 0.7 | 0.6 | 0.9 | 0.9 | 0.3 |
| C.V. (%) | 3.4 | 9.2 | 8.4 | 8.4 | 6.7 | 8.0 | 9.5 | 7.8 |

- 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. SEEDLING VIGOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/
2001 DATA
SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

| NAME | CO1 | IA1 | IL2 | IL3 | MA1 | MD1 | MI1 | MN1 | MO1 | NE1 | NE2 | NJ1 | NJ2 | NY1 | PA1 | SD1 | WA3 | WY1 | MEAN |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| WASHINGTON | 5.0 | 8.0 | 7.3 | 8.7 | 8.0 | 6.3 | 6.7 | 5.3 | 7.3 | 7.7 | 6.7 | 8.3 | 7.7 | 3.3 | 6.7 | 5.0 | 7.0 | 8.0 | 6.8 |
| KENBLUE | 6.3 | 7.0 | 6.3 | 7.3 | 8.0 | 7.3 | 7.0 | 6.3 | 7.7 | 8.0 | 7.7 | 7.7 | 8.0 | 2.7 | 6.7 | 4.0 | 7.3 | 7.0 | 6.8 |
| GO-9LM9 | 4.7 | 6.7 | 6.3 | 6.7 | 7.7 | 8.7 | 7.3 | 4.3 | 7.3 | 7.0 | 7.0 | 8.3 | 8.3 | 3.0 | 6.7 | 5.0 | 7.7 | 7.7 | 6.7 |
| ABBEY | 5.0 | 6.3 | 7.0 | 6.7 | 7.7 | 7.3 | 7.0 | 3.0 | 6.3 | 8.3 | 7.3 | 7.0 | 7.7 | 3.7 | 6.0 | 3.3 | 6.3 | 7.7 | 6.3 |
| WELLINGTON | 4.7 | 6.0 | 7.0 | 6.7 | 5.7 | 5.7 | 7.0 | 6.0 | 6.3 | 7.3 | 7.3 | 7.3 | 7.3 | 3.7 | 6.3 | 4.0 | 6.3 | 7.3 | 6.2 |
| LILLY | 5.0 | 6.7 | 4.7 | 7.0 | 6.3 | 6.3 | 7.0 | 3.7 | 7.0 | 8.0 | 6.7 | 7.0 | 8.0 | 3.0 | 7.3 | 4.0 | 6.3 | 7.3 | 6.2 |
| WILDWOOD | 5.0 | 7.0 | 4.7 | 7.0 | 4.3 | 6.0 | 7.3 | 5.0 | 7.3 | 7.7 | 6.7 | 7.0 | 8.0 | 3.7 | 6.7 | 3.7 | 6.3 | 7.7 | 6.2 |
| ARROW (A97-1567) | 5.0 | 6.7 | 5.0 | 6.3 | 6.7 | 6.7 | 7.3 | 3.7 | 7.3 | 8.3 | 6.7 | 7.3 | 8.0 | 4.0 | 6.3 | 3.3 | 6.3 | 6.3 | 6.2 |
| PST-1804 | 5.3 | 6.3 | 5.7 | 7.0 | 5.3 | 6.3 | 7.0 | 4.3 | 8.0 | 7.7 | 7.0 | 6.7 | 8.0 | 3.3 | 6.0 | 3.7 | 6.3 | 6.3 | 6.1 |
| RAVEN | 5.0 | 7.0 | 4.0 | 7.3 | 5.0 | 7.3 | 6.7 | 2.7 | 7.0 | 7.3 | 7.0 | 7.7 | 7.7 | 3.3 | 6.3 | 4.0 | 6.3 | 6.7 | 6.0 |
| ALPINE | 5.0 | 5.3 | 6.0 | 7.7 | 5.0 | 5.7 | 7.3 | 3.7 | 6.7 | 8.3 | 6.0 | 6.7 | 7.3 | 4.3 | 6.0 | 4.7 | 6.0 | 6.3 | 6.0 |
| BARONIE | 7.0 | 7.3 | 5.3 | 5.3 | 6.0 | 6.3 | 6.3 | 3.3 | 6.3 | 8.3 | 7.7 | 6.0 | 6.3 | 3.7 | 5.7 | 3.7 | 5.3 | 6.7 | 6.0 |
| GOLDRUSH | 5.0 | 6.3 | 3.3 | 7.3 | 6.7 | 5.7 | 6.3 | 4.3 | 6.7 | 6.7 | 8.3 | 5.7 | 8.0 | 4.3 | 6.7 | 4.3 | 5.7 | 5.7 | 5.9 |
| EAGLETON | 5.3 | 6.7 | 3.7 | 6.3 | 5.0 | 7.0 | 7.3 | 3.7 | 7.7 | 8.0 | 7.3 | 7.0 | 7.3 | 3.3 | 4.3 | 4.0 | 5.7 | 7.3 | 5.9 |
| IMPACT | 5.3 | 6.3 | 3.3 | 8.0 | 5.0 | 6.0 | 6.3 | 3.0 | 6.7 | 7.3 | 7.0 | 7.7 | 7.0 | 3.3 | 6.7 | 4.3 | 6.0 | 7.3 | 5.9 |
| J-2695 | 5.7 | 5.7 | 5.0 | 7.7 | 6.7 | 5.7 | 7.0 | 3.3 | 6.7 | 7.0 | 6.3 | 7.0 | 7.7 | 4.0 | 6.0 | 2.7 | 6.0 | 6.3 | 5.9 |
| DLF 76-9036 | 5.3 | 6.0 | 5.7 | 7.0 | 6.3 | 6.3 | 6.3 | 4.7 | 7.0 | 7.7 | 7.0 | 6.3 | 6.7 | 3.3 | 5.7 | 3.0 | 6.0 | 6.0 | 5.9 |
| LIBERATOR | 5.0 | 6.3 | 4.7 | 6.7 | 5.3 | 5.7 | 6.3 | 3.0 | 7.0 | 7.7 | 8.0 | 7.7 | 7.3 | 3.7 | 5.7 | 3.3 | 5.7 | 7.0 | 5.9 |
| PICK-232 | 5.3 | 6.0 | 4.3 | 5.0 | 5.3 | 3.7 | 7.3 | 5.0 | 6.7 | 9.0 | 7.7 | 6.7 | 7.7 | 4.0 | 6.3 | 4.0 | 6.3 | 5.7 | 5.9 |
| SERENE | 4.0 | 7.0 | 5.3 | 6.7 | 5.0 | 5.7 | 7.0 | 4.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 3.7 | 6.7 | 3.7 | 6.0 | 6.3 | 5.9 |
| AWARD | 5.3 | 5.7 | 4.3 | 6.7 | 6.3 | 4.7 | 6.3 | 4.3 | 7.0 | 8.7 | 7.3 | 6.7 | 7.3 | 3.0 | 5.7 | 3.7 | 5.7 | 7.0 | 5.9 |
| RAMBO | 5.0 | 6.0 | 2.7 | 8.0 | 6.3 | 6.3 | 7.0 | 3.7 | 6.3 | 8.0 | 7.7 | 6.3 | 7.3 | 3.0 | 6.0 | 3.7 | 5.7 | 6.3 | 5.9 |
| HALLMARK | 5.3 | 7.0 | 4.0 | 4.0 | 5.7 | 6.0 | 7.0 | 4.0 | 6.7 | 7.0 | 7.3 | 7.0 | 7.3 | 3.0 | 6.0 | 3.7 | 5.7 | 7.0 | 5.9 |
| H94-293 | 5.3 | 5.7 | 4.3 | 7.7 | 5.3 | 5.7 | 6.7 | 3.3 | 6.7 | 7.0 | 7.3 | 7.0 | 7.3 | 2.7 | 6.7 | 4.0 | 5.7 | 7.7 | 5.8 |
| BARTITIA | 6.0 | 6.7 | 4.3 | 6.7 | 6.3 | 7.0 | 6.7 | 3.3 | 7.3 | 8.0 | 7.7 | 6.3 | 7.0 | 3.0 | 5.7 | 3.3 | 6.0 | 6.3 | 5.8 |
| BH 00-6002 | 5.0 | 5.7 | 5.3 | 6.7 | 5.0 | 6.0 | 7.0 | 3.0 | 7.0 | 7.0 | 7.0 | 6.0 | 6.7 | 3.7 | 5.3 | 2.7 | 5.3 | 6.7 | 5.8 |
| LANGARA | 5.3 | 6.3 | 4.0 | 7.7 | 5.7 | 6.0 | 7.0 | 3.0 | 7.0 | 7.7 | 8.3 | 5.7 | 7.3 | 3.0 | 6.0 | 3.0 | 6.0 | 6.7 | 5.8 |
| JEFFERSON | 6.0 | 6.3 | 5.7 | 5.3 | 5.0 | 5.0 | 7.7 | 2.7 | 7.0 | 7.7 | 7.0 | 6.7 | 7.3 | 3.3 | 6.0 | 3.0 | 5.7 | 6.0 | 5.8 |
| ENVICTA | 5.0 | 6.7 | 4.7 | 4.3 | 4.7 | 6.0 | 6.0 | 4.0 | 6.3 | 7.3 | 7.3 | 7.0 | 7.3 | 3.0 | 5.0 | 3.0 | 5.0 | 8.0 | 5.8 |
| TSUNAMI (J-2487) | 5.0 | 5.7 | 5.3 | 7.3 | 5.0 | 5.7 | 6.7 | 4.0 | 6.3 | 7.3 | 7.3 | 7.0 | 8.3 | 3.0 | 6.0 | 3.0 | 6.3 | 7.7 | 5.8 |
| A96-742 | 5.0 | 4.7 | 6.0 | 8.3 | 5.7 | 6.0 | 6.7 | 4.0 | 7.3 | 6.7 | 6.7 | 7.0 | 7.3 | 2.7 | 5.7 | 4.0 | 6.0 | 5.7 | 5.8 |
| ROYCE (A98-304) | 5.0 | 6.0 | 4.3 | 7.7 | 5.0 | 6.0 | 6.3 | 3.3 | 6.3 | 8.0 | 8.0 | 6.3 | 6.7 | 2.7 | 6.7 | 3.3 | 5.7 | 4.7 | 5.7 |
| BARIRIS | 5.0 | 6.0 | 4.3 | 4.3 | 7.7 | 6.0 | 6.3 | 3.0 | 7.3 | 8.3 | 6.3 | 6.0 | 7.3 | 3.0 | 6.0 | 3.0 | 6.3 | 6.3 | 5.7 |
| LIMOUSINE | 5.0 | 6.3 | 3.3 | 6.0 | 5.3 | 5.3 | 6.7 | 5.3 | 6.3 | 7.3 | 6.7 | 6.0 | 6.3 | 3.0 | 6.3 | 3.3 | 6.0 | 6.0 | 5.7 |
| NUGLADE | 5.0 | 5.7 | 4.0 | 6.0 | 5.7 | 6.0 | 6.7 | 3.7 | 7.0 | 7.3 | 6.7 | 6.0 | 6.7 | 3.0 | 6.0 | 3.7 | 6.0 | 6.7 | 5.7 |
| UNKNOWN | 5.3 | 5.7 | 4.0 | 6.7 | 5.0 | 5.7 | 7.0 | 4.3 | 7.3 | 7.7 | 7.0 | 6.7 | 7.0 | 3.0 | 6.0 | 3.7 | 6.3 | 7.0 | 5.7 |
| APOLLO | 6.7 | 6.7 | 4.0 | 7.3 | 4.3 | 5.7 | 6.7 | 3.7 | 7.3 | 7.0 | 5.7 | 6.7 | 7.3 | 3.0 | 5.7 | 3.0 | 6.3 | 5.3 | 5.7 |
| ARCADIA | 5.7 | 5.7 | 3.7 | 6.7 | 6.0 | 5.0 | 6.7 | 3.7 | 7.3 | 7.7 | 7.0 | 6.7 | 7.3 | 3.3 | 6.7 | 3.3 | 6.0 | 5.7 | 5.7 |
| BARRISTER (J-1655) | 5.7 | 5.7 | 4.3 | 7.7 | 5.7 | 6.0 | 6.3 | 4.0 | 7.3 | 6.7 | 6.7 | 7.3 | 6.7 | 3.3 | 5.7 | 3.0 | 6.0 | 6.3 | 5.7 |
| J-1513 | 5.7 | 5.0 | 3.3 | 6.3 | 6.3 | 4.7 | 6.3 | 3.7 | 6.7 | 8.0 | 6.3 | 6.7 | 7.3 | 2.3 | 6.0 | 3.0 | 5.7 | 7.3 | 5.7 |
| ODYSSEY | 5.0 | 5.7 | 4.7 | 6.0 | 4.3 | 5.3 | 6.3 | 3.7 | 6.7 | 8.7 | 7.3 | 6.7 | 7.3 | 3.0 | 6.0 | 3.3 | 5.7 | 6.0 | 5.6 |
| COVENTRY | 5.0 | 6.0 | 4.0 | 5.3 | 3.7 | 5.7 | 6.7 | 4.0 | 7.3 | 7.3 | 7.3 | 6.7 | 7.3 | 3.3 | 5.3 | 3.7 | 6.3 | 7.3 | 5.6 |
| HV 140 | 5.3 | 6.3 | 4.3 | 7.7 | 5.3 | 5.3 | 6.7 | 3.7 | 7.3 | 8.0 | 7.0 | 5.3 | 7.3 | 3.0 | 4.7 | 3.0 | 5.0 | 6.0 | 5.6 |
| BEDAZLED | 5.3 | 6.0 | 5.3 | 7.7 | 5.7 | 5.7 | 6.7 | 3.3 | 7.7 | 8.0 | 7.3 | 5.3 | 5.7 | 3.3 | 4.0 | 3.7 | 4.3 | 6.3 | 5.6 |
| BLACKSTONE | 5.3 | 6.3 | 4.3 | 4.3 | 3.7 | 6.3 | 7.0 | 4.3 | 6.0 | 7.3 | 6.7 | 6.7 | 7.3 | 3.7 | 6.0 | 4.0 | 5.7 | 6.0 | 5.6 |
| SHAMROCK | 5.0 | 5.7 | 5.0 | 5.0 | 5.7 | 4.3 | 6.0 | 4.0 | 7.3 | 7.7 | 7.3 | 6.3 | 6.3 | 3.7 | 6.3 | 3.3 | 5.3 | 6.7 | 5.6 |
| BORDEAUX | 5.3 | 5.3 | 4.0 | 6.0 | 6.3 | 6.7 | 6.7 | 3.3 | 6.3 | 7.3 | 6.3 | 6.0 | 6.3 | 2.7 | 6.0 | 3.3 | 5.7 | 6.0 | 5.6 |
| SRX 26351 | 5.0 | 5.7 | 4.0 | 7.7 | 5.0 | 5.7 | 6.0 | 4.3 | 7.0 | 7.3 | 6.7 | 6.3 | 6.3 | 2.7 | 4.3 | 4.0 | 6.0 | 6.7 | 5.6 |
| SRX 2394 | 5.0 | 6.0 | 4.3 | 6.0 | 4.3 | 5.0 | 6.3 | 3.3 | 6.3 | 8.3 | 7.0 | 6.7 | 6.7 | 4.0 | 6.3 | 3.7 | 5.3 | 5.7 | 5.6 |
| BRILLIANT | 5.0 | 6.0 | 2.7 | 7.0 | 5.3 | 5.7 | 6.0 | 2.7 | 7.3 | 8.0 | 7.0 | 5.0 | 7.7 | 2.7 | 5.0 | 4.0 | 5.0 | 8.3 | 5.6 |

| | | | | | | | | | | | | | | | | | | | |
|-------------|-----|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| PST-108-79 | 5.0 | 5.3 | 2.0 | 3.0 | 2.3 | 4.0 | 6.7 | 2.3 | 7.7 | 7.7 | 6.7 | 2.0 | 4.7 | 3.7 | 3.0 | 2.7 | 4.3 | 5.0 | 4.3 |
| BARZAN | 6.0 | 4.3 | 3.7 | 3.7 | 2.3 | 4.3 | 6.3 | 1.7 | 6.0 | 8.0 | 7.3 | 2.3 | 2.3 | 3.7 | 3.0 | 2.7 | 4.0 | 5.0 | 4.3 |
| CHATEAU | 5.0 | 4.7 | 2.0 | 2.3 | 2.3 | 5.0 | 6.3 | 3.0 | 7.3 | 7.7 | 7.0 | 2.3 | 3.3 | 2.7 | 2.3 | 3.3 | 4.0 | 6.0 | 4.3 |
| PP H 7929 | 5.0 | 5.3 | 2.7 | 3.7 | 3.0 | 4.7 | 7.0 | 2.3 | 6.0 | 7.0 | 6.7 | 3.0 | 3.7 | 3.0 | 2.3 | 2.7 | 3.3 | 5.0 | 4.2 |
| A98-183 | 5.0 | 5.0 | 3.3 | 2.7 | 2.3 | 3.3 | 7.0 | 2.7 | 6.3 | 7.0 | 6.3 | 2.7 | 4.7 | 3.3 | 3.0 | 2.7 | 4.0 | 4.3 | 4.2 |
| IB7-308 | 5.7 | 4.0 | 2.7 | 3.3 | 2.3 | 4.0 | 6.3 | 2.7 | 6.0 | 7.0 | 6.0 | 3.0 | 5.7 | 3.3 | 3.3 | 3.0 | 4.0 | 3.3 | 4.2 |
| BAR PP 0566 | 5.0 | 6.0 | 2.3 | 2.7 | 2.3 | 3.3 | 6.0 | 4.0 | 6.3 | 8.0 | 8.0 | 2.0 | 3.3 | 3.3 | 2.3 | 2.0 | 3.3 | 5.0 | 4.2 |
| A98-407 | 5.0 | 4.3 | 1.7 | 2.0 | 1.7 | 3.7 | 5.7 | 2.7 | 5.7 | 8.0 | 6.7 | 2.3 | 3.7 | 3.7 | 2.7 | 2.3 | 3.3 | 4.0 | 3.8 |
| CVB-20631 | 5.0 | 4.7 | 1.3 | 3.3 | 1.7 | 3.3 | 5.0 | 2.0 | 5.7 | 7.0 | 7.0 | 1.7 | 3.7 | 2.3 | 2.7 | 2.3 | 3.3 | 4.0 | 3.7 |
| LSD VALUE | 0.6 | 1.4 | 1.7 | 2.2 | 3.3 | 1.7 | 1.1 | 2.0 | 1.3 | 1.1 | 1.3 | 1.2 | 1.4 | 1.5 | 1.4 | 1.6 | 1.0 | 2.4 | 0.4 |
| C.V. (%) | 7.1 | 15.3 | 27.4 | 25.1 | 44.9 | 19.8 | 10.3 | 34.8 | 11.8 | 8.9 | 11.5 | 14.3 | 13.8 | 28.5 | 19.0 | 29.2 | 11.9 | 24.5 | 19.5 |

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.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

| | | |
|---|---|--|
| 1. NAME OF APPLICANT(S) J. R. Simplot Company <i>(# 510/1/2207)</i> | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER J-1515 | 3. VARIETY NAME Perfection |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 5300 West Riverbend Avenue Post Falls, ID 83854 | 5. TELEPHONE (Include area code) (208) 773-7581 | 6. FAX (Include area code) (208) 773-4846 |
| 7. PVPO NUMBER | | # 2 0 0 3 0 0 0 0 8 |

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. YES NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. YES NO

10. Is the applicant the original owner? YES NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

YES NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

YES NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.