

**A REPORT OF THE  
NATIONAL GRASS VARIETY REVIEW BOARD**



**ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES**

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MAY 2011



NATIONAL GRASS  
VARIETY REVIEW BOARD

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES  
(APRIL 2011)

The Association of Official Seed Certifying Agencies (AOSCA), National Grass Variety Review Board reviewed the following varieties on March 3, 2011 in Mesa, AZ. The Board recommended the inclusion of these varieties for certification. Seed of these varieties may be certified, providing production meets all standards of the Certifying Agency of the jurisdiction in which the seed is grown.

All variety information, including descriptions, claims and research data to support any claim was supplied to the National Grass Variety Review Board by the applicants. The National Grass Variety Review Board makes judgments regarding recommendation of varieties for inclusion into certification based on the data supplied. Beyond this, the National Grass Variety Review Board takes no position on the accuracy or truthfulness of any description or claim made by the applicants.

Further information on current procedures, application forms and details regarding the National Grass Variety Review Board can be obtained from:

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Respectfully submitted,

Sandy Smith, Chair  
National Grass Variety Review Board

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## Barfest (BAR FXL 8US)

1. Variety name: Barfest Kind: Festulolium  
 Genus: xFestulolium Species: loliaceum (Huds.) P. Fourn.  
 Experimental designation (s): BAR FXL 8US  
 Date submitted: 8 January 2011

2. Barfest was developed by Barenbrug USA from germplasm traces back to 'Kemal' festulolium. Twenty-four selections were made from a forage trial in Washington. The plants were polycrossed and then had to cycles of recurrent selection for maturity, uniformity, tiller and stem rust resistance. The first breeder seed was produced in 1998.

3. Barfest was tested for forage use in Kentucky and France. It has shown adaption to those climatic conditions and will be made available for sale in climates represented by this locality. Barfest can be distinguished from Kemal based upon the Flag Leaf Height (Table 1). Barfest has a Flag Leaf Height that is at least 10.7 cm shorter than Kemal.

4. Growth & Morphology	Heading Date – Julian Days		Flag Leaf Height (cm)		Flag Leaf Width (mm)	
	2005		2005		2005	
Traits	Albany, OR	Boardman, OR	Albany, OR	Boardman, OR	Albany, OR	Boardman, OR
<i>Barfest</i>	132	135	74.9	61.9	9.0	7.5
<i>Spring Green</i>	132	136	71.8	61.5	9.6	9.3
<i>Kemal</i>	132	133	91.4	72.6	9.5	9.0
LSD (.05)	1	4	9.9	9.8	1.5	0.8
C.V. - %	1.7	1.5	5.5	6.6	7.7	4.1

Data collected from: Spaced single plants 60 Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Less than 3% variants are expected. The variants are usually taller with broader leaves.

5. Forage Use	Dry Matter Yields (Tons/Acre)		Maturity		Fresh Matter Yields (kg/6m <sup>2</sup> )		
	Kentucky		Kentucky		Mas Granier, France		
	2002	2003	2002	2003	2 May 2003	9 Apr 2004	
<i>Barfest</i>	5.57	4.97	60	51.5	<i>Barfest</i>	5.73	7.14
<i>Quartet</i>	3.97	3.85	53	58.7	<i>Kemal</i>	5.45	6.79
<i>Aries</i>	3.95	3.73	58	57.0	<i>Pradel</i>	1.6	0
<i>Linn</i>	4.07	3.87	56	59.5	<i>Barolex</i>	1.38	6.61
<i>Maverick Gold</i>	3.37	4.44	59	59.3	<i>Bargala</i>	3.88	7.05
LSD (.05)	0.67	0.55	3.78	2.7		1	1.4
C.V. - %	10.91	9.21	4.65	3.1		8.5	8.6

•Scale used to report traits (if appropriate): Maturity: 37=flag leaf emergence; 45=boot swollen; 50=beginning of inflorescence emergence; 58=complete emergence of inflorescence; 62 =beginning of pollen shed.

6. Breeder seed stock is maintained by West Coast Research Center, Barenbrug USA, Inc., Albany, OR, USA. Breeder seed is stored in environmentally controlled long-term storage facilities at the West Coast Research Center, Albany (USA) and Barenbrug BV Holland, Oosterhout, The Netherlands. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to two harvests of Foundation/Registered production followed by three additional harvests of Certified production. Certified class fields will be limited to five years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. If this variety is recommended as eligible for certification by official seed certifying agencies, the first certified class seed to be offered for sale is spring 2011? PVP will not be sought.



## Barrari (BAR VV 9634)

1. Variety name: Barrari Kind: Kentucky bluegrass  
 Genus: Poa Species: pratensis L.  
 Experimental designation (s): BAR VV-9634  
 Date submitted: 10 January 2011

2. Barrari was developed by Barenbrug USA from a single plant collection from Winnekendonk, Germany (Sauerland Region) on a walking path in a loam soil and was designated as VV-9634. Barrari is ~90% apomictic. The first breeder seed was produced in 2005.
3. Barrari was tested for turf use in Illinois and Virginia, and in the 2005 NTEP trials in Indiana, Iowa, Kentucky, Minnesota, Nebraska, New Mexico, Pennsylvania and Wisconsin. It has shown adaption to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2006	2007	2006	2007	2006	2007
<i>Barrari</i>	128	113	66.8	72.9	5.5	6.0
<i>Kenblue</i>	116	103	66.9	70.1	6.0	5.9
<i>Baron</i>	128	112	42.9	53.3	3.9	5.0
<i>Midnight</i>	132	129	46.6	61.3	4.8	6.9
LSD (.05)	2	4	5.3	10.48	0.88	1.1
C.V. - %	1.09	2.24	5.55	9.49	10.26	11.75

Data collected from: Spaced single plants 75 Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Since Barrari ~90% apomictic, it will produce ~10% variants. The variants are mainly shorter than Barrari, but some can be taller and lighter in color. None of the variants are noticeable in turf situations.

5. Turf Use	Turf Quality		Spring Greenup		Genetic Color		Spring Density	
	2009		2009		2009		2009	
	Lexington, KY	University Park, PA	St. Paul, MN	Madison, WI	Lexington, KY	University Park, PA	W. Lafayette, IN	Mead, NE
<i>Barrari</i>	6.5	6.1	7.3	7.0	7.3	5.7	7.7	8.7
<i>Baron</i>	6.5	6.5	4.0	4.7	3.7	6.0	6.3	8.7
<i>Barrister</i>	7.4	6.4	4.3	3.3	6.3	6.0	7.7	9.0
<i>Kenblue</i>	4.8	4.7	8.0	2.3	6.3	5.0	4.3	7.7
LSD (.05)	0.7	1.1	1.6	1.9	2.0	1.2	1.0	0.8
C.V. - %	6.3	9.9	18.2	20.2	19.5	11.3	7.9	5.6

•Scale used to report traits (if appropriate): 1-9 with 9 ideal turf; completely green; dark green; and maximum density.

6. Breeder seed stock is maintained by West Coast Research Center, Barenbrug USA, Inc., Albany, OR, USA. Breeder seed is stored in environmentally controlled long-term storage facilities at the West Coast Research Center, Albany (USA) and Barenbrug BV Holland, Oosterhout, The Netherlands. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by four additional harvests of Certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.
7. If this variety is recommended as eligible for certification by official seed certifying agencies, the first certified class seed to be offered for sale is spring 2011. PVP will not be sought.



## BarRobusto (00-Fa-3; BAR FA 1003)

1. Variety name: BarRobusto Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreber  
 Experimental designation (s): 00-Fa-3; BAR FA 1003  
 Date submitted: 10 January 2011

2. BarRobusto was developed by Barenbrug USA/Barenbrug France from pair-crosses of Barlexas x European collections. Only the Barlexas parent was harvested. The best plants were sprigged from turf plots in North Carolina. Three cycles of recurrent selection for turf and production traits were used to develop the variety. The first breeder seed was produced in 2001.

3. BarRobusto was tested for turf use in North Carolina, and in the 2001NTEP trials in Massachusetts, Michigan, North Carolina, Pennsylvania and Virginia. It has shown adaption to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Panicle Length (cm)	
	2009		2009		2009	
	Albany, OR	Boardman, OR	Albany, OR	Boardman, OR	Albany, OR	Boardman, OR
Traits						
BarRobusto	139	139	99	84	20.5	17.5
Barlexas	138	140	110.8	92.1	24.1	22
Kentucky 31+	134	141	136.8	106.1	27.4	25.2
Rebel II	138	143	116.1	94.7	24.2	22.5
Silverado	140	146	96.4	78.6	21.7	18.9
LSD (.05)	4	4	14.3	7.2	2.5	2.4
C.V. - %	1.7	1.5	7.6	4.6	6.4	6.7

Data collected from: Spaced single plants 75 Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Less than 4% variants are expected. The variants are usually taller and lighter green in color.

5. Turf Use	Turf Quality		Percent Living Ground Cover		Genetic Color		Leaf Texture	
	2005		2005		2005		2005	
	University Park, PA	Blacksburg, VA	Amherst, MA	East Lansing, MI	University Park, PA	Blacksburg, VA	University Park, PA	Blacksburg, VA
BarRobusto	6.5	7.0	88.3	80.0	7.0	7.0	6.7	7.3
Barlexas	5.9	6.4	81.7	80.0	6.7	6.3	6.3	7.0
Kentucky 31+	2.9	4.4	33.3	61.7	3.0	3.7	2.0	4.0
Wolfpack	6.2	6.2	83.3	80.0	6.3	6.3	6.3	7.0
SilveradoII	6.8	6.8	81.7	80.0	6.3	6.3	7.0	7.0
LSD (.05)	0.6	1.3	19.3	9.1	0.7	1.0	1.1	0.9
C.V. - %	6.4	11.8	15.4	7.3	6.4	9.4	10.3	7.6

●Scale used to report traits (if appropriate): 1-9 with 9 ideal turf; percent live cover; dark green; and very fine.

6. Breeder seed stock is maintained by West Coast Research Center, Barenbrug USA, Inc., Albany, OR, USA. Breeder seed is stored in environmentally controlled long-term storage facilities at the West Coast Research Center, Albany (USA) and Barenbrug BV Holland, Oosterhout, The Netherlands. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by four additional harvests of Certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. If this variety is recommended as eligible for certification by official seed certifying agencies, the first certified class seed to be offered for sale is spring 2011. PVP will not be sought.

## Blackjack (RAD-474)

1. Variety name: Blackjack Kind: Kentucky bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): RAD-474  
 Date submitted: January 1, 2011

2. Blackjack Kentucky bluegrass was developed at the Radix Research, Inc. facility near Corvallis, Oregon. Blackjack appears to have originated as a single, apomictic plant selection between highly sexual, maternal plant CAZ 31E a collection made by Chad F. Miebach at Chinle, Arizona in early 2002, and paternal pollen contribution from the variety Baron. Blackjack was identified as being unique from its maternal parent by its apomixis % and taller growth habit. Blackjack most closely resembles the variety Baron. The first breeder seed was produced in 2004.

3. Blackjack was tested for turf use under medium maintenance in Western Oregon. It will be made available for sale in climates represented by this locale.

4. Growth & Morphology	Total Plant Height Corvallis, Oregon		Panicle Length Corvallis, Oregon		Heading Date – Julian days Corvallis, Oregon	
	2006	2007	2006	2007	2006	2007
<i>Blackjack</i>	59.3	71.5	8.1	8.7	084	095
Baron	48.2	53.6	8.5	9.1	111	120
Kenblue	57.1	84.4	9.3	10.7	080	085
LSD (.05)	3.9	3.3	0.4	0.4	5.9	6.4
CV%	6.8	5.9	4.6	3.9	7.5	6.7

Data collected from: Spaced single plants  X  Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Blackjack has averaged 93.2 apomixis. 4.3% of variants are miniature plants and 2.5% are taller with a slightly broader leaf.

5. Turf Use	Turf Quality		Genetic Color		Spring Green-up		Drought Stress	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2005	2006	2005	2006	2006	2007	2005	2006
Blackjack	5.2	4.3	7.0	7.6	3.3	3.9	4.1	3.8
Baron	5.4	5.1	5.3	5.4	3.5	4.0	5.4	4.6
Kenblue	3.8	3.8	4.8	5.0	8.4	8.1	2.3	1.9
LSD (.05)	0.7	0.6	1.1	0.8	0.9	0.7	1.1	0.8
CV%	8.3	7.1	10.2	8.4	11.2	9.8	14.3	10.1

• Rating scale is from 1 through 9 with 9 denoting best quality, darkest color, earliest green-up and best drought stress performance.

6. Breeder seed of Blackjack was first produced in 2004. Steven J. Witten and Chad F. Miebach of Radix Research, Inc. performed all breeding work. A portion of breeder seed has been retained in cold storage; any further breeder seed production will be overseen by Radix Research, Inc. Foundation, Registered and Certified classes of seed production will be maintained by Columbia River Seed. Seed classes recognized are Foundation, Registered, and Certified with stand lengths 5, 5, and 8 years, respectively. Exceptions may be granted by Radix Research, Inc.

7. Certified seed is anticipated to be available in the summer of 2011. Application for PVP has not yet been decided.



## Class One (IS-FRR-29)

1. Variety name: Class One Kind: Red Fescue  
 Genus: Festuca Species: rubra  
 Experimental designation (s): IS-FRR 29  
 Date submitted: January 10, 2011

2. Class One was developed through recurrent selection from maternal families used to produce the varieties Cindy Lou (50%) and Navigator (50%). The Class One breeder seed nursery was developed from tillers of progeny from three polycrosses developed in Tangent, Oregon that underwent further evaluation and selection in turf plots at Rutgers University Adelphia Research station. Turf quality and disease resistance were used as the main selection criteria. Breeder seed was first produced in 2003.

3. Class One (IS-FRR 29) is developed by DLF International Seeds in Halsey, Oregon for use in turf. It was developed for the United States and Canada, and has been tested extensively in cool season grass growing regions. It is well adapted to the Northeastern, North Central, and Transition regions of the United States. Class One has exhibited resistance to leaf spot caused by *Bipolaris sorokiniana* and *Drechslera*, red thread caused by *Laetisaria fuciformis*, and dollar spot caused by *Lanzia* and *Moellerodisus* species formally; *Sclerotinia homoeocarpa*.

4. Growth & Morphology	Heading date – Julian day		Plant Height - cm		Flag Leaf Height - cm	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
	2005	2006	2005	2006	2005	2006
Class One	112.1	128.1	77.9	78.5	28.5	29.3
Flyer	103.4	124.0	87.7	89.1	38.5	38.9
Cindy Lou	105.0	124.3	75.5	76.6	28.6	29.0
Shademaster	107.6	123.9	91.8	93.7	34.1	34.9
Boreal	112.0	133.1	91.1	92.6	34.8	35.4
LSD (.05)	4.9	2.4	2.6	3.1	1.9	2.1
CV (%)	3.2	1.3	2.2	2.7	4.3	4.5

Data collected from: Spaced single plants X Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: A small percentage (0.5%) of plants exhibits a taller plant height and lighter green color and the rest of the population. This appears to be stable from breeder to foundation generations.

5. Turf Use	Turf Quality		Leaf Spot		Red Thread		Dollar Spot	
	2004 thru 2007		2004 thru 2007		2004 thru 2007		2004 thru 2007	
	Northeastern*	Transition**	ME1	NJ2	ME1	PA1	MD1	PA1
Class One	5.6	5.5	8.0	5.3	8.8	8.3	7.3	7.8
Jasper II	5.1	5.1	8.3	5.0	7.8	4.3	4.7	5.0
Shademaster	4.3	4.6	5.3	1.3	6.2	6.3	5.0	3.3
Boreal	3.9	4.1	6.0	3.0	7.0	5.0	3.0	4.2
Cardinal	5.7	5.9	7.3	6.0	8.5	8.7	7.7	8.7
LSD (.05)	0.3	0.7	2.3	1.2	1.5	1.7	0.9	1.5
CV (%)	8.9	10.7	18.9	14.2	11.7	16.1	8.9	14.2

●Scale used to report traits (if appropriate): 1-9, 9=ideal turf, 9=No disease

●ME1 = Orono, Maine; NJ2 = Adelphia, New Jersey; PA1 = University Park, Pennsylvania; MD1 = College Park, Maryland

\*Northeastern = New Jersey, Pennsylvania, Maine, Road Island, Massachusetts. \*\*Transition = Kansas, Maryland, Virginia

6. Breeder seed of Class One (IS-FRR 29) was first produced in 2003. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon in. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation or Registered production followed by four additional harvests as certified class production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. If this variety is recommended for certification by official seed certifying agencies, certified seed will be first available in 2011. A determination to apply the variety for Plant Variety Protection has not been made.





## Goliath (IS-FTF 25, CIS-FTF 25)

1. Variety name: Goliath Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-FTF 25, CIS-FTF 25  
 Date submitted: January 10, 2011

2. Goliath was developed using multiple cycles of recurrent selection started in 1973. The germplasm used to develop Goliath traces maternally to the varieties Martin 2 (40%), Kentucky 31 (40%), and Cajun 2 (20%). Forage yield, stem rust resistance, and maturity were used as selection criteria in all cycles of selection. Breeder seed was first produced in 2002.

3. Goliath (IS-FTF 25, CIS-FTF 25) was developed by DLF International Seeds, Halsey, Oregon for us as forage. Goliath will primarily be used for hay, production. Goliath has been tested for forage yield in cutting trials near Philomath, Oregon; Lexington, Kentucky; Berry, Kentucky, and Mound Valley, Kansas. At these locations Goliath had forage yields that were competitive with those current commercial varieties indicating that Goliath is suitable for use for hay and silage production in western Oregon, Central Kentucky and Southeastern Kansas.

4. Growth & Morphology	Heading date – Julian day		Flag Leaf Height - cm		Panicle length - cm	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
	2008	2009	2008	2009	2008	2009
Goliath	134.1	120.0	43.04	83.85	19.41	33.52
Au Triumph	131.2	113.4	34.09	74.43	15.93	25.05
Fawn	135.3	116.6	42.15	82.97	15.88	30.23
Kentucky 31 LE	140.2	122.0	42.65	94.50	18.31	31.81
Jesup	142.3	120.4	34.66	82.26	14.84	29.55
LSD (.05)	3.8	1.6	6.50	6.64	2.53	2.74
CV (%)	2.0	0.9	12.40	6.02	10.94	6.68

Data collected from: Spaced single plants  Plants in rows/solid seeding

Variants to be expected and frequency: A small percentage (0.5%) of plants exhibits a shorter plant height and earlier maturity than the rest of the population. This appears to be stable from breeder to foundation generations.

5. Primary Use	Forage Yields – Tons/Acre									Stem Rust***		
	Kansas State University*			University of Kentucky**			DLFIS Philomath, OR			Philomath, Oregon		
	2004	2005	2006	2006	2007	Total	2004	2005	Mean	2004	2005	Mean
Goliath	4.80	4.61	1.25	5.05	1.86	6.91	10.7	9.2	9.9	8.5	5.3	6.9
Kentucky 31 LE	4.40	4.04	1.09	4.68	2.21	6.89	11.4	9.4	10.4	6.8	5.3	6.1
Au Triumph	4.15	4.20	1.30	-	-	-	12.9	9.5	11.2	2.7	2.3	2.5
Savory	-	-	-	3.31	1.88	5.20	11.1	9.0	10.0	7.0	6.0	6.5
Martin 2	-	-	-	-	-	-	10.7	9.3	10.0	6.2	3.3	4.8
LSD (.05)	0.82	0.47	0.14	1.29	0.5	1.57	1.1	1.6	1.2	0.6	1.2	0.6
CV (%)	-	-	-	20.07	17.96	17.15	7.3	13.2	8.7	7.5	20.6	8.8

●Scale used to report traits: \*\*\*1-9, 9=No disease

●Insert additional information for use by inspectors:\*Mound Valley, Kansas \*\*Lexington, Kentucky

6. Breeder seed of Goliath (IS-FTF 25, CIS-FTF 25) was first produced in 2002. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation or Registered production followed by four additional harvests as Certified class production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. If this variety is recommended for certification by official seed certifying agencies, seed will be first available in 2011. A determination to apply the variety for Plant Variety Protection has not been made.



## (IS-FTF 24, CIS-FTF 24)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-FTF 24, CIS-FTF 24  
 Date submitted: January 10, 2011

2. IS-FTF 24 was developed using multiple cycles of recurrent selection. The germplasm used to develop IS-FTF 24 traces maternally to the varieties Mozark (30%), Triumph (14%), Martin 2 (14%), Martin (14%), Quantum (14%), and Stargrazer (14%). Forage yield and stem rust resistance were used as selection criteria in all cycles of selection. Breeder seed was first produced in 2002. Additional breeder seed was produced in 2003.

3. IS-FTF 24 was developed by DLF International Seeds, Halsey, Oregon for us as forage. IS-FTF 24 will primarily be used for hay, production. IS-FTF 24 has been tested for forage yield in cutting trials near Philomath, Oregon; Lexington, Kentucky; Berry, Kentucky, and Mound Valley, Kansas. At these locations IS-FTF 24 had forage yields that were competitive with those current commercial varieties indicating that IS-FTF 24 is suitable for use for hay and silage production in western Oregon, Central Kentucky and Southeastern Kansas.

4. Growth & Morphology	Heading Date –Julian days		Flag Leaf Height (cm)		Flag Leaf Length (cm)	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
	2008	2008	2008	2009	2008	2009
IS-FTF 24	132.27	116.62	40.51	85.60	9.50	22.40
Kentucky 31	140.21	122.00	42.65	94.50	9.55	18.09
Fawn	135.30	116.59	42.15	82.97	8.98	20.40
Martin 2	134.38	117.91	38.87	84.83	9.25	18.43
Au Triumph	131.23	113.35	34.09	74.43	11.72	17.63
LSD (.05)	3.81	1.58	6.50	6.64	2.76	2.77
CV (%)	1.99	0.94	12.40	6.02	22.39	18.28

Data collected from: Spaced single plants   X   Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Small percentages (0.5%) of plants exhibit a shorter plant height and a later maturity than the rest of the population. Variants appear to be stable.

5. Primary Use	Forage Yields (T/A)						Spring Stand			
	Berry, KY (Fresh Wt)			Mound Valley, KS (Dry Wt)			Berry, KY (1-9,9=Best)		Lexington, KY (%)	
	2006	2007	Total	2004	2005	2006	2008	2009	2005	2006
IS-FTF 24	27.1	9.0	36.0	5.11	4.63	1.36	5.4	6.0	100	94
Kentucky 31 LE	27.0	10.3	37.3	4.40	4.04	1.09	8.5	5.0	100	86
Au Triumph	21.5	8.8	30.3	4.15	4.20	1.30	6.5	4.8	-	-
Kentucky 31 HE	-	-	-	-	-	-	5.3	4.0	98	94
Savory	24.6	8.8	33.5	-	-	-	7.3	5.8	-	-
LSD (.05)	4.6	0.8	4.6	0.82	0.47	0.14	2.2	1.8	11.8	26.4
CV (%)	10.6	4.8	7.7	-	-	-	27.2	28.7	9.4	26.1

•Scale used to report traits (if appropriate): Spring stand 1-9 for Berry Kentucky and % for Lexington Kentucky

6. Breeder seed of IS-FTF 24 was first produced in 2002. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation or Registered production followed by four additional harvests as Certified class production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. If this variety is recommended for certification by official seed certifying agencies, seed will be first available in 2012. A determination to apply the variety for Plant Variety Protection has not been made.



## Pawnee (OG0203G)

- Variety name: Pawnee  
Genus: Dactylis  
Experimental designation: OG0203G  
Date submitted: January 15, 2008

Kind: Orchardgrass  
Species: glomerata  
Acceptance date: February 15, 2008
- Pawnee orchardgrass was developed using mass selection for drought and grazing tolerance, followed by one cycle of selection for vigor, stem rust resistance, early-medium maturity, and seed yield potential. Seed of the orchardgrass variety 'Benchmark', bulked remnant polycross progeny seed from a 1993 FFR orchardgrass clonal nursery, and seed of the tall fescue variety 'Select' were bulked in approximately equal parts by weight, and seeded into a 1.5-acre pasture near Milton-Freewater, OR in the fall of 1995. This pasture was well established by spring 1996. It was then divided into approximately 0.5-acre paddocks, and subsequently grazed continuously by horses, sheep, and goats over the next 5 years, without fertilization or irrigation. In May 2001, 198 surviving orchardgrass plants were dug and transplanted to a spaced-plant nursery on FFR's research farm near Touchet, WA. Plants were evaluated for stem rust resistance during the summer and fall of 2001. In spring 2002, the 12 parent clones of Pawnee were selected based on spring vigor, heading date, pollen shed date, and seed yield potential, and placed in an isolated crossing block at Touchet, WA. Breeder seed (syn-1) was harvested in bulk from this block in 2003.
- Pawnee is later maturing than Benchmark, Potomac, and Pennlate (mean heading date at Buck Creek, IN = May 21, May 15, May 16, and May 17, respectively). It is similar in plant height (105.3cm) to Potomac, Pennlate, and Benchmark. Pawnee has a wider (8.3mm) flag leaf than Benchmark (7.7mm), Potomac (7.9mm), and Pennlate (7.9mm), and a longer panicle (16.8cm) than Benchmark (15.3cm) and Potomac (15.0cm). Pawnee was rated darker green in color (6.0, 8.0; rating: 9=dark blue-green, 1=light green) than Benchmark (4.7, 7.0) in two field trials at Buck Creek, IN.
- Pawnee yielded less than Benchmark Plus (6.33, 5.55 vs. 7.41, 6.41 tons dry matter per acre) at Buck Creek, IN in 2006 and 2007. It yielded higher than Haymaster (5.74 vs. 4.61) at Breese, IL in 2006, but less than Benchmark Plus and Haymaster (4.86 vs. 6.97 and 6.67) at Mt. Joy, PA in 2006. Pawnee yielded higher than Command (5.87, 6.34 vs. 5.12, 4.87) in 2005-06, and higher than Haymaster (6.34 vs. 4.52) in 2006 at Franklin, TN. It yielded higher than Benchmark Plus at Franklin in 2007 (2.98 vs. 2.49). Pawnee had less regrowth (6.3, 8.0; rating: 9=most regrowth) than Benchmark Plus (7.7, 9.0) at Buck Creek, IN. Third-year stand persistence (visual estimate of percent ground cover; rating: 9>90% stand, 1<10% stand) of Pawnee (mean = 7.4) was similar to that of Benchmark Plus and Haymaster at 3 locations.
- Pawnee has been tested in, is adapted to, and is intended for use as hay in: Indiana, Illinois, Kentucky, Ohio, Pennsylvania, Tennessee, and Wisconsin.
- Recognized classes of seed for Pawnee are breeder, foundation, and certified. Syn-1 breeder seed was produced in isolation at Touchet, WA in 2003. FFR Cooperative will maintain sufficient breeder seed for the life of the variety in cold storage. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
- The first certified seed of Pawnee will be offered for sale in 2009.



**(EXP-TF-09)**

1. Variety name: Not Yet Named Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): EXP-TF-09  
 Date submitted: January 3, 2011

2. EXP-TF-09 was developed by McCarthy Research Farm LLC beginning with the selection of plants from nurseries at Verboort, Oregon. Selected plants were derived from the following varieties: Hudson, Falcon III, Dorado, AST1001 and RNP. Plants were grown as spaced plants in an isolated nursery at MRF near Verboort, Oregon where they were screened for dark green color, fine leaves, abundant tillering and high seed yield. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for abundant tillering, good turf quality, dark green color and high seed yield were utilized to form a crossing block that produced the first breeder seed in 2007.

3. EXP-TF-09 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date (Julian Days) Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag leaf Height (cm) Verboort, Oregon	
	2008	2009	2008	2009	2008	2009
	EXP-TF-09	126.7	132.8	104.7	99.9	49.3
Bonsai	134.9	141.1	71.2	65.8	30.3	27.0
Rebel II	127.6	132.5	99.1	95.5	52.3	55.2
Silverado	130.9	136.3	76.5	74.1	38.0	33.9
Bonanza	128.3	137.9	97.3	95.8	50.2	48.7
Kentucky 31	121.1	128.4	122.1	118.1	66.8	63.6
SE	1.6	2.1	2.5	3.2	1.7	3.0
LSD @ 0.05	3.6	4.6	5.3	7.0	3.7	6.5

Data collected from: Spaced single plants  Plants in rows/solid seeding

5. Turf Use	Turf Quality (1-9) 2008		Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
EXP-TF-09	7.4	7.2	7.7	7.4	7.2	6.6	7.2	6.3
Bonsai	5.7	4.5	5.8	4.7	5.7	4.2	6.1	5.7
Tar Heel	5.5	5.0	5.0	5.0	4.5	5.8	4.9	5.7
Silverado	4.4	3.7	3.8	2.9	4.3	3.0	4.3	2.8
Bonanza	3.3	3.3	2.4	2.9	3.5	3.0	3.8	2.6
Kentucky 31	2.1	1.8	1.6	1.2	1.4	1.3	1.3	1.5
SE	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.5
LSD @ 0.05	0.9	0.8	1.1	1.0	0.9	1.1	1.0	1.0

Scale: 1 -9 with 9 = ideal quality or darkest green or most dense or finest texture.

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of EXP-TF-09 breeder seed will be kept in cold storage by McCarthy Research Farm LLC located in Verboort, Oregon. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Registered or Foundation Seed. Foundation and Registered class fields will be limited to two harvests of Foundation/Registered production followed by four additional harvests of Certified production. Certified class fields will be limited to four years of seed production. Additional years of seed production may be approved by the breeder or individual designated by the breeder.

7. Certified seed is anticipated to be available in the fall of 2011. PVP will be sought with the certification option.



**(APR2116)**

1. Variety name: \_\_\_\_\_ Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): APR2116  
 Date submitted: December 15, 2010

2. The perennial ryegrass APR2116 was developed from various cycles of recurrent phenotypic selection. The selection cycle were used to improve the genetic color, yield potential, disease resistance and rooting potential. APR2116 traces its parentage to germplasm sources obtained from Rutgers University from the germplasm used in the development of Citation, Manhattan II, Loretta and Caravelle. In the fall of 1992 two spaced-plant nurseries were established at Adelphia, NJ(Rutgers Univ). In the fall of 1993 46 plants were selected from the nurseries and transferred to an isolated crossing block. The seed was harvested by progeny and established in a turf trial in 1995. In fall of 1997 the 39 top performing progeny were removed and planted in an isolated crossing block. Thirty-five plants were harvested based on yield and floret fertility. In 1998 this seed was used to establish a single-plant progeny nursery near Albany, OR. The nursery consisted of 10 plants from each progeny line, replicated 6 times, for a total of 2,100 plants. In the fall of 1999, 11 lines were removed based on disease susceptibility and poor seed yield. The remaining plants were harvested in bulk. This seed was used to plant a turf trial near Salem, NJ in early September, 2001. The trial was maintained to increase the incident of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The trial was severely damaged and 800 survivors were removed in December, 2001. The survivors were returned to Albany, OR planted in isolation. The seed was harvested in bulk in 2002. This seed was used to plant a turf trial near Salem, NJ in early September, 2002. The trial was maintained to increase the incident of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The trial was severely damaged and 500 survivors were removed in November, 2002. The survivors were returned to Albany, OR and planted in isolation. The seed was harvested in bulk in 2003. In the fall of 2004, 672 plants were screened for deep root selection (Bonos, et. al., Crop Science 44-5, 2004) in flexible root tubes. Seventy-one plants were selected and moved to an isolated crossing block. The seed was harvested in bulk in 2005. This seed was used to plant a turf trial near Salem, NJ in early September, 2005. The trial was maintained to increase the incident of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The trial was severely damaged and 50 survivors were removed in November, 2005. The survivors were returned to Albany, OR and planted in isolation and harvested in 2006. 504 plants were screened for deep root selection. Sixty-one plants were selected and moved to an isolated crossing block. In 2007 the seed was harvested in bulk and designated APR2116 breeder seed.

3. APR2116 has been tested for turf quality under lawn conditions near Salem, NJ. The data indicates that APR2116 is suitable for turf used in this area.

4. Growth & Morphology	Heading Date (days after April 1)		Mature Plant Height (cm)		Flag Leaf Height (cm)			
	Albany, OR		Albany, OR		Albany, OR			
Traits	2009	2010	2009	2010	2009	2010		
APR2116	48.33	53.33	59.60	63.77	32.47	38.80		
Hawkeye	47.00	54.00	61.70	66.33	33.43	38.60		
Line Drive GLS	48.33	54.67	60.93	65.90	32.43	37.67		
Manhattan II	38.33	49.33	67.73	71.33	33.23	40.30		
LSD (.05)	2.34	2.16	4.21	4.11	2.27	6.23		
C.V.	3.63	2.95	4.56	4.26	4.66	3.52		
Data collected from:	Spaced single plants		X					
Variants to be expected and frequency:			No variants observed.					
5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Salem, NJ		Salem, NJ		Salem, NJ		Salem, NJ	
	2009	2010	2009	2010	2009	2010	2009	2010
APR2116	6.50	5.90	5.65	6.00	5.65	7.90	6.50	7.00
1GSquared	6.05	5.75	5.75	5.65	6.20	8.08	6.75	6.85
Integra II	6.15	6.25	5.00	5.95	6.25	7.65	6.40	7.00
Phenom	6.00	5.75	4.50	6.00	5.95	6.00	5.90	7.00
Manhattan II	4.25	3.85	5.50	6.15	5.75	7.75	5.40	6.15
C.V.	5.65	6.70	10.14	7.30	4.81	4.61	8.34	3.90
LSD (.05)	0.54	0.62	0.83	0.73	0.48	0.58	0.83	0.43

•Scale used to report traits (if appropriate): Salem, NJ data reported on a 1-9 scale; 9=darker, most dense, highest coverage, highest quality, most disease resistant.

•Insert additional information for use by inspectors (if any):

6. APR2116 breeder seed is maintained by NexGen Turf Research, Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered class may be established from either Foundation or Breeder seed. Seed production of Foundation and Registered class will be limited to three years. Seed production of Certified class will be limited to five years. Additional years of seed production may be approved by the breeder or an individual designated by the Director of Research, NexGen Turf Research, LLC.

7. If APR2116 is accepted by official seed certifying agencies, Certified seed will be first offered for sale fall of **2011**. At this time Plant Variety Protection (PVP) will not be sought.



## Boost (ORTET, ORTET-05, AT-100)

1. Variety name: Boost Kind: Intermediate ryegrass  
 Genus: Lolium Species: hybridum  
 Experimental designation (s): ORTET, ORTET-05, AT-100  
 Date submitted: December 22, 2010

2. Boost was developed by Oregro Seeds, Inc. as a seven clone polycross. Using Bastion and Fetione perennial ryegrasses, Bison Intermediate ryegrass, and Kemal festulolium as parents, initial crossings were made, seven selections from these crosses divided into three propagules each, and placed into a polycross nursery. Two cycles of recurrent phenotypic selection were performed, and the first breeder seed designated in 2003. Selection criteria included uniformity, high vegetative and reproductive tillering, potential high dry matter yield, and freedom from foliar disease.

Boost has been trialed in Oregon, New York, Pennsylvania, and Kentucky and is adapted for used in forage production applications (hay, silage, green chop, and pasture) in those regions.

4. Growth & Morphology Traits	Flag leaf length, cm 2010		Flag leaf width, mm 2010		Inflorescence length, cm 2010	
	Lebanon, OR	Albany, OR	Lebanon, OR	Albany, OR	Lebanon, OR	Albany, OR
	<i>Boost</i>	30.8	27.6	14	13.1	29.1
<i>Kemal (FL)</i>	26	23.8	11.8	12	24.4	23.9
<i>Bastion</i>	22.5	21.5	8.7	7.8	22.9	21.2
<i>Fetione</i>	21.4	21.7	8.2	8.1	21.3	19.6
<i>Barlatra</i>	23.9	22.5	10.7	10.3	23.2	22.3
LSD (.05)	3.7	2	.1	.8	.4	.6
CV%	6.5	3.7	.4	3.6	.7	1.2

Data collected from: Spaced single plants \_\_\_\_\_ Plants in rows/solid seeding X

Variants to be expected and frequency: 5% of plants exhibit short (less than 4 mm) awns

5. Primary Use? Forage	Forage Yields (T/A)				Stem rust 0-9, 9=none			
	Lebanon, OR		Albany, OR		Lebanon, OR		Albany, OR	
	2007	2008	2008	2009	2007	2008	2008	2009
<i>Boost</i>	3.4	3.3	3.5	3	7	8	8	8
<i>Kemal (FL)</i>	2.8	2.5	3	2.3	7	6.5	6.5	6.5
<i>Bastion</i>	2.6	2.5	2.6	2.5	4	5	5	5
<i>Fetione</i>	2.5	2.3	2.5	2.2	3.5	4	5	5
LSD (.05)	.4	.5	.9	.3	.8	.8	.8	0
CV%	5.1	6.5	11.4	3.7	5.7	5.2	5	5

6. Breeder seed is maintained by Oregro Seeds, Inc. of Albany, OR, in controlled, long term storage. Generations and stand limitations as follows: Breeder – 2 years; Foundation – 2 years; Registered – 2 years; Certified – 6 years.

7. Certified seed will be available in 2011. PVP will not be applied for.



## Pinstripe II (PN II)

1. Variety name: Pinstripe II Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): PN II  
 Date submitted: December 22, 2010

2. Pinstripe II is a paired cross between a plant collected in Salem, OR and a selection of Pinstripe from an old nursery. Three cycles of recurrent phenotypic selection were performed. Selection criteria included uniformity of appearance and maturity, dark green color, dense crowns, fine leaf texture, number of vegetative and reproductive tillers, and freedom from foliar disease. Breeder seed was declared in 2007.

3. Pinstripe II has been performance tested only in Oregon. It is adapted to that area for turf applications.

4. Growth & Morphology	<i>Plant height, cm</i>		<i>Flag leaf height, cm</i>		<i>Flag leaf length, cm</i>	
	<i>Lebanon, OR</i>		<i>Lebanon, OR</i>		<i>Lebanon, OR</i>	
	2009	2010	2009	2010	2009	2010
<i>Pinstripe II</i>	67.2	60.3	30.7	30.8	10.6	10.6
<i>Linn</i>	92.2	81.9	46.6	41.4	14.9	14.6
<i>Pinnacle</i>	82	72.1	40.5	39.4	13.1	13.8
<i>Pinstripe</i>	71.9	58.7	35.2	29	11.1	10.2
LSD (.05)	5	1.7	3.1	.8	.3	.5
CV%	2.7	1.1	3.5	.9	1.1	1.6

Data collected from: Spaced single plants X Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Less than 1% exhibiting wider leaves, lighter color, and earlier maturity.

5. Turf Use	<i>Turf Quality 0-9, 9=best</i>		<i>Turf color 0-9,</i>		<i>Density 0-9, 9=densest</i>		<i>Leaf spot 0-9, 9=none</i>	
	<i>Lebanon, OR</i>		<i>Lebanon, OR</i>		<i>Lebanon, OR</i>		<i>Lebanon, OR</i>	
	2009	2010	2009	2010	2009	2010	2009	2010
<i>Pinstripe II</i>	7.2	7	7	8	7	5.8	7	7
<i>Linn</i>	3	3.5	2.5	3	2.5	2.6	3.5	3.5
<i>Pinnacle</i>	5.8	5.5	5.5	6	5	4.8	5.3	5
<i>Pinstripe</i>	5.2	5	4.5	5.5	7.5	6.8	5	4
LSD (.05)	.4	.4	.8	.6	1.1	.5	.7	.8
CV%	2.6	2.9	6.2	4.1	7.6	3.7	5.2	6.9

6. Pinstripe II is maintained by long term storage of breeder seed by Oregro Seeds, Inc. of Albany, OR. Generational scheme and stand life as follows: Breeder – 2 years; Foundation – 2 years; Registered – 2 years; Certified – 6 years.

7. First certified seed will be offered in 2011. PVP will not be applied for.



## Winter Hawk (FL/NE 2006 (misc 2x) LRCT)

1. Variety name: Winter Hawk Kind: Annual ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): FL/NE X2006 (Misc 2X) LRCT  
 Date submitted: December 24, 2010

2. Winter Hawk annual ryegrass is a composite of crosses and selections from Ed, Surrey, Surrey II, Marshall, Florlina, Passerel Plus, and collections of cold tolerant diploid annual ryegrasses. Through six cycles of selection in Scottsbluff, NE, plants surviving the winters and showing the highest level of cold tolerance were combined with six cycles of selection in Gainesville, FL for resistance to gray leaf spot and crown rust. Seed from both selection sites were composited to create Winter Hawk. Breeder seed was declared in 2007 from Oregon production.

3. Selection activities in Nebraska would lend Winter Hawk as adaptable as any annual ryegrass in that severe winter climate. Winter Hawk has been tested in Florida and Texas, and is well adapted for use in regions with similar demands for an annual ryegrass.

4. Growth & Morphology	Plant height, cm		Flag leaf length, cm		Spike length, cm	
	Lebanon, OR		Lebanon, OR		Lebanon, OR	
Traits	2009	2010	2009	2010	2009	2010
<i>Winter Hawk</i>	148.7	145.1	21.7	20.3	20.5	19
<i>Surrey</i>	159	152.2	25.5	25.1	22.1	21.5
<i>Marshall</i>	161.9	154.4	24	25.2	21.7	20.5
<i>Gulf</i>	156.6	155.8	29	26.2	23.2	21.5
LSD (.05)	3.2	0	1.7	2.1	1.8	1.9
CV%	.8	0	2.6	3.3	3.1	3.6

Data collected from: Spaced single plants X Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Less than 1% taller, wide leaves, and earlier maturity

5. Primary Use?	Forage Yields lbs DM/acre				Crown rust, 0-9, 0=none			
	Gainesville, FL		Beaumont, TX		Gainesville, FL		Beaumont, TX	
	2008	2009	2008	2009	2008	2009	2008	2009
<i>Winter Hawk</i>	11502	10035	4380	3518	2.3	1.8	0	1.7
<i>Marshall</i>	14426	11881	3214	2877	7.3	4.5	4	6
<i>Flying A</i>	13478	10736	4423	4349	4	2.5	.3	3.3
<i>Jackson</i>	12713	11166	4102	3578	2	2.3	2	3
LSD (.05)	1844	2584	564	1232	1.2	.9	2.1	.99
CV%			11	26.1			11.2	25

6. Adequate supplies of breeder seed is maintained in long term storage by Oregro Seeds, Inc. of Albany, OR. Generational scheme includes breeder, foundation, registered, and certified. Generational scheme may be amended by permission of the breeder.

7. First certified seed will be offered in 2011. PVP will not be applied for.





## (06 B Lp)

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): 06 B Lp  
 Date submitted: December 22, 2010

2. **06 B Lp** is an eight clone advanced generation synthetic variety developed at the Pickseed USA, Inc. (PS) research facility, Albany, OR. The parents were selected for their fine textured and dark green foliage. The parents also exhibited erect growth habit with medium late reproductive heading. Ramets of the eight parental clones were polycrossed in May 2006 at PS. A spaced planted nursery of 800 individuals reared from Syn 1 seed was established at PS in October 2006. A total of 25% of the progeny were rogued, during 2007, from the original 800 established in the nursery. Seed from the remaining individuals was bulk harvested (Syn 2) as breeder seed of **06 B Lp** in July 2007.

3. 06 B Lp has been tested for turf quality and several component characteristics of turf quality. It has demonstrated good turf quality in Camarillo, CA; Salem, NJ; Blacksburg, VA; and Urbana, IL. The variety could be available for sale in climates representative to those locations.

4. Growth & Morphology	Heading Date (DOY)		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2009	2010	2009	2010	2009	2010
<i>06 B Lp</i>	139	145	60.9	62.2	12.6	11.1
<i>Manhattan</i>	145	158	68.7	74.5	18.7	17.7
<i>Fiesta 4</i>	138	147	61.5	54.4	12.4	10.4
<i>Pinnacle</i>	131	141	67.1	74.1	14.1	12.8
<i>Linn</i>	120	127	71.2	86.3	15.2	17.3
LSD (.05)	3	2	5.3	8.8	2.0	2.6
S.E.	1	1	2.6	4.3	1.0	1.3

Data collected from: Spaced single plants  Plants in rows/solid seeding

Variants to be expected and frequency: Taller, lighter green, coarser textured at <3%

5. Turf Use	Turf Quality		Foliage Color		Stand Density		Gray Leaf Spot Tolerance	
	2008		2008		2008		2007	
	A	B	A	C	B	C	C	D
<i>06 B Lp</i>	5.2	6.1	6.0	5.7	5.0	5.2	5.0	5.7
<i>Manhattan II</i>	5.1	5.2	5.1	3.3	5.5	3.7	2.7	3.7
<i>Cutter</i>	5.1	5.4	5.3	4.2	5.5	3.6	3.3	4.0
<i>Jet</i>	5.3	6.1	5.8	5.4	6.1	4.7	3.3	4.7
<i>Penguin 2</i>	5.3	5.8	5.7	4.5	5.3	4.3	3.3	4.3
LSD (.05)	0.3	0.4	0.3	0.4	0.8	0.7	1.3	1.1
CV%	3.8	4.2	3.2	5.2	10.5	11.1	16.1	14.9

• Scale used to report traits (if appropriate): 1-9 with 9=ideal quality, darkest green color, best density, and most disease tolerance.

• Insert additional information for use by inspectors (if any):

**If necessary, identify locations in line b) by the following key	A:	Blacksburg, VA	B:	Urbana, IL
	C:	Salem, NJ	D:	Adelphia, NJ

6. Breeder seed of *06 B Lp* was first produced in 2007 by PS. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and Registered class fields will be limited to four harvests of Foundation/Registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of production.

7. Certified seed is anticipated to be available in the summer of 2011. A decision for filing a P.V.P. application has not been made at this time.



## (07-4 PR)

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
Genus: Lolium Species: perenne  
Experimental designation (s): 07-4 PR  
Date submitted: December 22, 2010

2. 07-4 PR is a fifteen clone advanced generation synthetic variety developed at Pickseed USA, Inc. (PS) research facility, Albany, OR. The fifteen parental clones of 07-4 PR were brought together in an isolated area, and allowed to interpollinate with each other in May 2007 at PS. The parents were selected for their fine textured, disease free, and dark green foliage. The parents also exhibited erect growth habit with medium late reproductive heading. After seed maturation in early July 2007, seed was harvested via separate maternal parent. A spaced planted nursery of 100 half-sib progeny from each parent was established at PS in November 2007.

In April/May 2008, individuals in the above nursery were evaluated. A total of 20% of the progeny were rogued from the original 1500 established in the nursery. Approximately equal roguing occurred between and within the half-sib families. Seed of all the remaining progeny in the nursery was bulk harvested in July 2008 (observing little variation in mature plant morphology between half-sib families). The seed was designated as breeder seed for the variety.

3. 07-4 PR has been tested for turf quality in overseeding applications at Tucson, AZ and Overton, TX. It could be available for sale in climates represented by those locations.

4. Growth & Morphology	Heading Date (DOY)		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2009	2010	2009	2010	2009	2010
07-4 PR	139	149	53.0	57.2	12.4	11.7
Manhattan	145	158	68.7	74.5	18.7	17.7
Fiesta 4	138	147	61.5	54.4	12.4	10.4
Pinnacle	131	141	67.1	74.1	14.1	12.8
Linn	120	127	71.2	86.3	15.2	17.3
LSD (.05)	3	2	5.3	8.8	2.0	2.6
S.E.	1	1	2.6	4.3	1.0	1.3

Data collected from: Spaced single plants X Plants in rows/solid seeding

Variants to be expected and frequency: Taller, lighter green, coarser textured at <3%

5. Turf Use	Percent Stand		Turf Quality (1-9)		Genetic Color (1-9)		%Transition to WS	
	2008		Feb. 2009		Feb. 2009		June 1, 2009	
	A	B	A	B	A	B	A	B
07-4 PR	70	81	6.3	5.3	8.0	7.3	28	22
Axcella 2	78	87	6.0	5.7	5.0	5.3	36	83
RKS	90	90	7.5	6.0	7.8	7.7	15	22
Soprano	89	91	7.3	6.7	7.8	7.3	15	37
LSD (.05)	15	9	1.3	1.2	0.8	0.8	21	19
Range	6-92	0-94	3.3-8.5	1.0-7.3	4.8-8.0	1.0-8.0	9-49	22-83

● Scale used to report traits (if appropriate): 1-9 with 9=ideal quality, darkest green color. Percent stand was scored approx. one month after overseeding. % transition to WS = percent transition to warm season grass.

\*\*If necessary, identify locations in line b) by the following key A: Tucson, AZ B: Overton, TX

6. Breeder seed of 07-4 PR was first produced in 2008 by PS. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and Registered class fields will be limited to four harvests of Foundation/Registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of production.

7. Certified seed is anticipated to be available in the summer of 2011. A decision for filing a P.V.P. application has not been made at this time.



(66B-08)

1. Variety name: \_\_\_\_\_ Kind: Intermediate ryegrass  
Genus: Lolium Species: hybridum  
Experimental designation (s): 66B-08  
Date submitted: December 22, 2010

2. **66B-08** was developed from a field cross (open pollination) of progeny from six previously developed maternal sources. Three sources were from intermediate ryegrass varieties. Two sources originated from annual ryegrass varieties. One source came from a perennial ryegrass variety. The nursery for the field cross was established at the Pickseed USA, Inc. (PS) research facility, Albany, Oregon.

During May 2008, individuals of each source were evaluated and retained for open pollination if they exhibited a strict intermediate ryegrass phenotype, e.g. plant height, spike length, foliage color and texture, and anthesis date that were approximately in the middle of the range for those traits observed for a typical perennial ryegrass, and for those same traits observed for pure annual ryegrass. Upon seed maturation in early July 2008, it was decided to bulk harvest the seed produced from the remaining open pollinated plants. This seed was designated as breeder seed for **66B-08**.

3. **66B-08** has been tested for overseeding turf use in southern Arizona. It has shown adaptation there, and will be marketed in climates similar to that location.

4. Growth & Morphology	Heading Date (DOY)		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2009	2010	2009	2010	2009	2010
<i>66B-08</i>	135	143	80.6	79.5	17.4	15.1
<i>Gulf</i>	129	139	99.7	88.3	20.7	15.7
<i>Linn</i>	120	131	70.0	64.9	15.9	13.4
<i>Transeze</i>	135	144	76.9	67.7	16.6	13.5
LSD (.05)	3	2	16.2	9.0	2.7	2.4
SE	1	1	7.9	4.4	1.3	1.2

Data collected from: Spaced single plants  Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency:  Taller, lighter green, coarse textured at <3%

5. Turf Use	Percent Stand		Turf Quality (1-9)		Genetic Color (1-9)		Transition to bermudagrass(%)	
	Tucson, AZ		Tucson, AZ		Tucson, AZ		Tucson, AZ	
a)								
b)	2008	2009	Mar'09	Mar'10	2009	2010	May'09	May'10
<i>66B-08</i>	93	81	7.3	6.8	7.0	6.0	36	15
<i>Gulf</i>	98	91	4.0	5.5	4.3	4.0	31	17
<i>Axcella 2</i>	98	86	5.8	5.8	5.3	4.5	35	13
LSD (.05)	7	18	1.0	0.8	0.8	0.7	19	9
Range	2-98	0-91	4.3-8.3	2.0-9.0	1.5-8.3	1.8-8.0	5-94	6-93

•Scale used to report traits (if appropriate): 1-9 with 9 = ideal quality, or darkest green. Percent stand was scored 1 month after overseeding.

6. Breeder seed of **66B-08** was first produced in 2008. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation, Registered, and Certified class fields will be limited to two harvests.

7. Certified seed is anticipated to be available in the summer of 2011. A decision for filing a PVP application has not been made at this time.



## (FLRS)

1. Variety name: \_\_\_\_\_ Kind: Annual ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): FLRS  
 Date submitted: December 22, 2010

2. **FLRS** was selected from a commercially available diploid forage annual ryegrass variety. In early April of 2006, a spaced planted field nursery of 400 individual plants of the above referenced variety was established. The nursery was located at the Pickseed USA, Inc. (PS) research facility in Albany, Oregon. In middle May 2006, 12 plants were identified from the population which exhibited tall, erect growth habit, and medium fine textured foliage of medium dark green color. Towards the end of May (a few days before anthesis), the 12 selected plants were dug out of the field nursery, placed in a greenhouse at PS, and allowed to cross pollinate. Seed was bulked from the five individuals (of the twelve) having produced the highest yields. The bulked seed was considered pre-breeder seed of **FLRS**. A spaced planted nursery of individuals reared from pre-breeder seed was established at PS in October 2007. Seed produced from this nursery in 2008 was considered breeder seed of **FLRS**.

3. **FLRS** has been tested for overseeding turf use in northeastern Texas and southern Arizona. It has shown adaptation to those climatic conditions, and will be marketed in climates represented by those localities.

4. Growth & Morphology	Heading Date (DOY)		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2009	2010	2009	2010	2009	2010
<i>FLRS</i>	135	144	90.5	81.9	24.4	17.9
<i>Gulf</i>	129	139	99.7	88.3	20.7	15.7
<i>Floreagon</i>	135	143	99.0	95.4	22.2	17.4
<i>Panterra</i>	130	138	92.3	85.1	17.5	15.1
LSD (.05)	3	2	16.2	9.0	2.7	2.4
SE	1	1	7.9	4.4	1.3	1.2

Data collected from: Spaced single plants  Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Taller, lighter green, coarse textured at <3%

5. Turf Use	Percent Stand		Turf Quality (1-9)		Genetic Color (1-9)		Transition to bermudagrass(%)	
	Overton, TX		Overton, TX		Overton, TX		Overton, TX	
	2008	2009	Feb'09	Feb'10	2009	2010	May'09	May'10
<i>FLRS</i>	92	88	6.0	6.3	6.3	6.7	27	26
<i>Gulf</i>	94	83	3.7	4.7	3.7	4.0	37	53
<i>Axcella 2</i>	87	85	5.7	5.0	4.7	6.0	45	48
LSD (.05)	9	NS	1.2	0.9	0.8	0.8	19	14
CV%	6	12	12.2	9.4	7.5	7.1	45	23

•Scale used to report traits (if appropriate): 1-9 with 9 = ideal quality, or darkest green. Percent stand was scored 1 month after overseeding.

6. Breeder seed of **FLRS** was first produced in 2008. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation, Registered, and Certified class fields will be limited to only one harvest.

7. Certified seed is anticipated to be available in the summer of 2011. A decision for filing a PVP application has not been made at this time.



## (LH 08)

1. Variety name: \_\_\_\_\_ Kind: Intermediate ryegrass  
Genus: Lolium Species: hybridum  
Experimental designation (s): LH 08  
Date submitted: December 22, 2010

2. **LH 08** was derived from the open pollination of progeny from 21 half-sib family lines. The 21 half-sib families originated from two populations created in May 2004 at Pickseed USA, Inc. (PS) research facility in Albany, Oregon. The two populations were made by polycrossing two groups of ryegrass parents. Each parent of the two polycross groups were phenotypically similar, exhibiting tall, erect growth habit, and medium fine textured foliage of medium dark green color. Each parent also subjectively showed good seed production potential.

Parents of each group were allowed to open pollinate in isolation from other ryegrass. Seed was harvested by separate parent in July 2004. Equal amounts of progeny seed were germinated from each parent among the two polycross groups in November 2004. Plantlets were transplanted to two field nurseries at PS. One hundred progeny of each of the parents were established in the nurseries. Once full reproductive heading occurred in May 2005, approximately 20% and 15% rouging was applied equally to progeny among half-sib families within each of the two groups, respectively. Seed was bulk harvested from each group and seed of each group was further bulked. A one acre field was sown in October 2007, resulting in breeder seed production, 2008.

3. **LH 08** has been tested for overseeding turf use in northeastern Texas and southern Arizona. It has shown adaptation to those climatic conditions, and will be marketed in climates represented by those localities.

4. Growth & Morphology	Heading Date (DOY)		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2009	2010	2009	2010	2009	2010
<i>LH 08</i>	134	142	75.5	73.2	14.5	12.5
<i>Gulf</i>	129	139	99.7	88.3	20.7	15.7
<i>Linn</i>	120	131	70.0	64.9	15.9	13.4
<i>Transeze</i>	135	144	76.9	67.7	16.6	13.5
LSD (.05)	3	2	16.2	9.0	2.7	2.4
SE	1	1	7.9	4.4	1.3	1.2

Data collected from: Spaced single plants X Plants in rows/solid seeding \_\_\_\_\_

Variants to be expected and frequency: Taller, lighter green, coarse textured at <3%

5. Turf Use	Percent Stand		Turf Quality (1-9)		Genetic Color (1-9)		Transition to bermudagrass(%)	
	Overton, TX		Overton, TX		Overton, TX		Overton, TX	
a)								
b)	2008	2009	Feb'09	Feb'10	2009	2010	May'09	May'10
<i>LH 08</i>	93	82	6.3	6.0	7.0	7.7	18	31
<i>Gulf</i>	94	83	3.7	4.7	3.7	4.0	37	53
<i>Axcella 2</i>	87	85	5.7	5.0	4.7	6.0	45	48
LSD (.05)	9	NS	1.2	0.9	0.8	0.8	19	14
CV%	6	12	12.1	9.4	7.5	7.1	45	23

•Scale used to report traits (if appropriate): 1-9 with 9 = ideal quality, or darkest green. Percent stand was scored 1 month after overseeding.

6. Breeder seed of **LH 08** was first produced in 2008. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation, Registered, and Certified class fields will be limited to two harvests.

7. Certified seed is anticipated to be available in the summer of 2011. A decision for filing a PVP application has not been made at this time.



## Armada (PSG 366, A03-66)

1. Variety name: Armada Kind: Kentucky bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): PSG 366, A03-66, Pick 366  
 Date submitted: December 31, 2010

2. *Armada* Kentucky bluegrass (*Poa pratensis* L.) originated as a single, highly apomictic plant selected from the progeny of a cross between a plant similar to *Unique* Kentucky bluegrass and plants of *Lakeshore* Kentucky bluegrass. Data has shown *Armada* to have earlier spring green-up than *Unique*.

3. *Armada* has been tested for turf quality and several component characteristics of turf quality at locations in the states of Michigan, Nebraska, and Wisconsin. Mean quality of *Armada* has been similar to *Rugby II*. Mean leaf texture has been similar to *Midnight*. Mean spring green-up for *Armada* has been similar to *Julia*.

4. Growth & Morphology	Heading Date (DOY) Albany, OR		Panicle Length (cm) Albany, OR		Plant Height (cm) Albany, OR	
	2007	2008	2007	2008	2007	2008
<i>Armada</i>	May 3	May 6	10.2	10.6	48.0	72.9
<i>Baron</i>	May 4	May 7	9.4	9.4	38.6	57.3
<i>America</i>	May 18	May 13	9.1	9.3	36.3	66.7
<i>Midnight</i>	May 21	May 19	9.1	9.3	42.0	64.1
LSD (.05)	4 days	2 days	1.2	1.1	5.0	5.7
S.E.	2 days	1 day	0.6	0.5	2.5	2.8

Data collected from: Spaced single plants X Plants in rows/solid seeding  
 Variants to be expected and frequency: None noted

5. Turf Use	Turf Quality 2007		Foliage Color 2007		Foliage Texture 2007		Spring Green-up 2007	
	A	B	A	B	A	B	A	B
<i>Armada</i>	5.5	7.0	5.0	6.7	7.0	6.3	4.7	5.3
<i>Baron</i>	4.2	5.9	6.3	6.7	7.0	6.7	6.0	3.7
<i>Julia</i>	4.4	5.9	6.3	5.3	6.7	7.3	5.3	5.0
<i>Midnight</i>	5.9	6.7	5.7	9.0	8.0	6.7	6.3	2.3
<i>Rugby II</i>	5.2	6.3	6.7	6.3	7.0	5.0	6.0	3.0
LSD (.05)	1.2	1.0	2.1	1.1	1.3	1.2	1.2	1.7
CV%	15.2	9.7	23.5	10.9	11.0	10.7	12.9	23.8

• Scale used to report traits: 1-9 subjective scale with 1=poorest quality, lightest color, broadest texture, & least green-up; 9=best quality, darkest color, finest texture, most green-up.

• Insert additional information for use by inspectors (if any):

\*\*If necessary, identify locations in line b) by the following key      A: East Lansing, MI      B: Madison, WI

6. Pickseed USA, Inc. (PS) Albany, OR will maintain seed stocks of *Armada*. Expanded breeder seed was produced in 2005 from the initial hybrid breeder seed produced in 2002. A record sample of the expanded breeder seed is maintained in cold, dry storage at PS. Additional breeder seed will be produced as needed under the supervision of PS. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and registered class fields will be limited to four harvests of foundation/registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. If recommended eligible for certification by official seed certifying agencies, the first certified class of seed will be offered for sale, August 2011. It is planned that Plant Variety Protection will be sought, without requiring the certification option.



## Pershing (RAD-PR39, PR39)

1. Variety name: Pershing Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): RAD-PR39, PR39  
 Date submitted: January 4, 2011

2. Pershing was developed by Radix Research, Inc. beginning with individual plant selections from various nurseries located at the Radix Research Station near Corvallis, Oregon. Pershing originates from the varieties Vail II (31.25%), Baccarat (31.25%), Kokomo (18.75%), All Star 2 (12.5%) and Pizzazz (6.25%). Plants were selected on the basis of compact crowns, dark color, general freedom from disease and the general appearance of high seed yield capacity. Subsequently, two cycles of seed selections conforming to the original selection criteria were used to create an isolated crossing block that produced the first breeder seed in 2006.

3. Pershing has exhibited good turf performance and adaptation in western Oregon. It will be made available for sale in climates represented by this locale.

4. Growth & Morphology	Total Plant Height (cm) Corvallis, Oregon		Flag Leaf Length (cm) Corvallis, Oregon		Heading Date Corvallis, Oregon	
	2007	2008	2007	2008	2007	2008
<i>Pershing</i>	64.4	70.7	14.3	13.0	May 31	June 4
Pinnacle	66.4	75.1	17.0	16.6	May 26	May 29
Manhattan II	67.9	76.3	16.8	16.3	May 28	May 31
Manhattan	65.1	71.1	18.0	17.4	June 5	June 10
Elka	51.9	54.0	13.7	12.8	June 12	June 17
LSD (.05)	3.5	3.2	1.7	1.5	3.0 days	3.3 days
CV%	10.1	9.4	12.6	11.4	15.6	14.1

Data collected from: Spaced single plants  Plants in rows/solid seeding

Variants to be expected and frequency: Approximately 1.5% of population may exhibit a total plant height 7% to 11% taller than population average.

5. Turf Use	Turf Quality (1-9)		Genetic Color (1-9)		Leaf Texture (1-9)		Turf Density (1-9)	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	a)	b)	2007	2008	2007	2008	2007	2008
Pershing	6.1	6.4	6.8	6.3	5.9	6.1	6.2	6.5
Palmer IV	6.0	5.8	6.7	6.4	6.0	6.2	6.0	5.9
All Star 2	5.2	5.5	5.7	5.4	5.7	5.8	5.5	5.4
Sonata	3.5	3.4	4.0	3.5	5.0	5.2	5.2	5.0
LSD (.05)	0.5	0.4	0.8	0.6	0.8	0.6	0.7	0.5
CV%	10.9	10.2	12.1	11.5	12.4	12.0	12.3	11.0

• Rating scale is from 1 through 9 with 9 denoting best quality, darkest color, finest texture and highest density.

6. Breeder Seed of Pershing was first produced in 2006. A sample of the original Breeder Seed has been retained in cold storage for future use. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Breeder or Foundation Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by two additional harvests of Certified production. Certified class fields will be limited to five years of seed production. Exceptions may be granted by Radix Research, Inc. Cascade International Seed Company has been licensed to produce and sell Pershing.

7. Certified seed is anticipated to be available in the spring of 2011. PVP will not be applied for.



## Tonto (RAD-TF28, TF28)

1. Variety name: Tonto Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designations: RAD-TF28, TF28  
 Date submitted: January 4, 2011

2. Tonto was developed by Radix Research, Inc. beginning with individual plant selections from various nurseries located at the Radix Research Station near Corvallis, Oregon. Tonto originates from the varieties Montana (33.4%), Inferno (22.2%) and Sitka (22.2%) as well as naturalized selections collected at Fort McHenry in Baltimore, MD in April 2002 (22.2%). Plants were selected on the basis of compact and fine-leaved crowns, early maturity, general freedom from disease and dark color. Subsequently, two cycles of seed selections conforming to the original selection criteria were used to form an isolated crossing block that produced the first breeder seed in 2006.

3. Tonto has exhibited good turf performance and adaptation in western Oregon. It will be made available for sale in climates represented by this locale.

4. Growth & Morphology	Total Plant Height (cm)		Flag Leaf Height (cm)		Heading Date	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2008	2009	2008	2009	2008	2009
Tonto	109.9	114.3	48.0	50.2	May 10	May 9
Mini-Mustang	118.0	125.4	54.6	55.9	May 11	May 9
Silverado	116.1	120.3	63.5	65.7	May 14	May 11
Bonsai	105.3	109.3	52.1	53.8	May 19	May 15
LSD (.05)	4.0	3.8	3.3	3.4	2.2 Days	2.0 Days
CV%	10.8	10.6	13.6	13.2	17.7	18.1

Data collected from: Spaced single plants  Plants in rows/solid seeding

Variants to be expected and frequency: Approximately 2.3% of the population may exhibit a total plant height 9%-13% taller than population average.

5. Turf Use	Turf Quality (1-9)		Genetic Color (1-9)		Leaf Texture (1-9)		Turf Density (1-9)	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2008	2009	2008	2009	2008	2009	2008	2009
Tonto	6.5	6.3	6.7	6.3	6.3	6.5	6.0	6.3
Falcon IV	6.0	6.0	5.7	5.4	6.4	6.2	6.1	6.2
Lexington	5.8	5.6	6.0	6.0	6.2	6.1	5.9	5.9
Tahoe	5.2	5.4	5.6	5.5	5.5	5.4	5.2	5.0
LSD (.05)	0.5	0.6	0.9	0.8	0.9	0.7	0.7	0.5
CV%	10.4	10.8	12.1	12.6	13.3	12.5	10.9	11.0

• Rating scale is from 1 through 9 with 9 denoting best quality, darkest color, finest texture and highest density.

6. Breeder Seed of Tonto was first produced in 2006. A sample of the original Breeder Seed has been retained in cold storage for future use. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Breeder or Foundation Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by five additional harvests of Certified production. Certified class fields will be limited to eight years of seed production. Exceptions may be granted by Radix Research, Inc. Cascade International Seed Company has been licensed to produce and sell Tonto.

7. Certified seed is anticipated to be available in the spring of 2010. PVP will not be applied for.





**(SPTR 2959, PSG 2959, A97-959)**

1. Variety name: \_\_\_\_\_ Kind: Kentucky bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): SPTR 2959, PSG 2959, A97-959  
 Date submitted: December 31, 2010

2. *SPTR 2959* Kentucky bluegrass (*Poa pratensis* L.) originated as a hybrid progeny of a cross between a selected plant of *Shamrock* and a selected plant of *America*.

3. *SPTR 2959* has been tested for turf quality and several component characteristics of turf quality at locations in the states of Michigan, Nebraska, and Wisconsin. Mean quality of *SPTR 2959* has been similar to *Shamrock*. However, data has shown differences between *SPTR 2959* and *Shamrock* based on turf establishment, stem rust disease scores, and seed head production in turf applications. Mean leaf texture has been similar to *Midnight*. Mean spring green-up for *SPTR 2959* has been similar to *Julia*.

4. Growth & Morphology Traits	Heading Date (DOY) Albany, OR		Panicle Length (cm) Albany, OR		Plant Height (cm) Albany, OR	
	2007	2008	2007	2008	2007	2008
	<i>SPTR 2959</i>	Apr 30	May 5	10.3	11.3	48.4
<i>Baron</i>	May 4	May 7	9.4	9.4	38.6	57.3
<i>America</i>	May 18	May 13	9.1	9.3	36.3	66.7
<i>Midnight</i>	May 21	May 19	9.1	9.3	42.0	64.1
LSD (.05)	4 days	2 days	1.2	1.1	5.0	5.7
S.E.	2 days	1 day	0.6	0.5	2.5	2.8

Data collected from: Spaced single plants X Plants in rows/solid seeding  
 Variants to be expected and frequency: None noted

5. Turf Use	Turf Quality 2007		Foliage Color 2007		Foliage Texture 2007		Spring Green-up 2007	
	A	B	A	B	A	B	A	B
<i>SPTR 2959</i>	5.2	6.5	6.3	4.7	7.0	7.3	6.0	4.7
<i>Baron</i>	4.2	5.9	6.3	6.7	7.0	6.7	6.0	3.7
<i>Shamrock</i>	5.6	6.4	4.7	5.0	7.7	6.3	6.3	5.7
<i>Midnight</i>	5.9	6.7	5.7	9.0	8.0	6.7	6.3	2.3
<i>Julia</i>	4.4	5.9	6.3	5.3	6.7	7.3	5.3	5.0
LSD (.05)	1.2	1.0	2.1	1.1	1.3	1.2	1.2	1.7
CV%	15.2	9.7	23.5	10.9	11.0	10.7	12.9	23.8

●Scale used to report traits: 1-9 subjective scale with 1=poorest quality, lightest color, broadest texture, & least green-up; 9=best quality, darkest color, finest texture, most green-up.

●Insert additional information for use by inspectors (if any):

\*\*If necessary, identify locations in line b) by the following key      A: East Lansing, MI      B: Madison, WI

6. Pickseed USA, Inc. (PS), Albany, OR will maintain seed stocks of *SPTR 2959*. Expanded breeder seed was produced in 2005 from the initial hybrid breeder seed harvested in 1996. A record sample of this seed is maintained in cold, dry storage at PS. Additional breeder seed will be produced as needed under the supervision of PS. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and registered class fields will be limited to four harvests of foundation/registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. If recommended eligible for certification by official seed certifying agencies, the first certified class of seed will be offered for sale, August 2011. It is planned that Plant Variety Protection will be sought, without requiring the certification option.



## (SRP1GMC)

1. Variety name: \_\_\_\_\_ Kind: creeping bentgrass  
 Genus: Agrostis Species: stolonifera  
 Experimental designation (s): SRP1GMC  
 Date submitted: December 31, 2010

2. *SRP1GMC* creeping bentgrass (*Agrostis stolonifera* L.) is a medium-fine-leaved, dark green creeping bentgrass selected from the maternal progenies of 9 clones with improved dollar spot resistance (caused by the fungus *Sclerotinia homoeocarpa* F.T. Bennet.). The final progeny of *SRP1GMC* were also selected, subjectively, for high shoot density, medium maturity, medium bright green color, and low prostrate growth habit (which is defined as low growing putting green type growth habit). *SRP1GMC* was developed as a composite cultivar using population improvement and phenotypic and genotypic recurrent selection. First breeder seed of the cultivar was produced in 2008 at Pickseed USA, Inc. (PS), Albany, OR.

3. *SRP1GMC* has been tested for turf quality and several components of turf quality as a 2008 entry in the National Turfgrass Evaluation Program (NTEP). The variety has shown adaptation, particularly, at NTEP testing sites in southwest VA, northeast KY, northern UT, and western WA. The variety could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height (cm) Albany, OR		Panicle Length(cm) Albany, OR	
	2009	2010	2009	2010	2009	2010
<i>SRP1GMC</i>	June 7	June 11	24.3	33.6	16.9	20.0
<i>Cobra</i>	June 8	June 14	38.5	55.9	10.0	9.9
<i>Pencross</i>	June 11	June 16	30.1	49.5	16.7	19.6
<i>Seaside</i>	June 10	June 18	41.2	75.2	12.0	15.1
LSD (.05)	2 days	2 days	6.9	8.9	1.8	3.8
SE	1.0	1.0	3.3	3.9	0.8	1.6

Data collected from: Spaced single plants       Plants in rows/solid seeding  
 Variants to be expected and frequency: coarser textured and lighter green color at <2%

5. Turf Use	Turf Quality		Foliage Color		Foliage Texture		Spring Greenup	
	2009		2009		2009		2009	
a)	A	B	A	B	C	D	D	E
<i>SRP1GMC</i>	5.1	6.1	5.7	7.0	7.0	6.3	6.3	7.3
<i>Penn A-1</i>	5.1	5.7	7.3	7.3	7.3	5.7	4.0	7.0
<i>L-93</i>	4.7	4.6	6.0	7.0	6.7	3.3	4.0	7.0
<i>Penncross</i>	4.4	4.4	5.7	7.0	6.0	1.3	3.7	7.0
LSD (.05)	1.1	1.1	1.4	0.7	0.8	1.1	2.3	1.0
CV%	14.4	12.0	15.9	6.7	6.6	11.9	27.9	9.0

•Scale used to report traits (if appropriate): 1-9 with 9=ideal quality, darkest green color, finest texture, and earliest greenup

Locations: A: Logan, UT    B: Puyallup, WA    C: Fayetteville, AR    D: North Brunswick, NJ    E: West Lafayette, IN

6. A record sample of original breeder seed and any further breeder seed production will be maintained by Pickseed USA, Inc. The breeder seed of *SRP1GMC* was first produced in 2008. A record sample of this seed is maintained by Pickseed USA, Inc. in cold, dry storage. Additional breeder seed will be produced as needed to reconstitute the variety, under the supervision of Pickseed USA, Inc. Foundation fields may only be established using Breeder seed. Registered fields may be established from either Breeder or Foundation seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production, followed by three additional harvests of certified production. Certified class fields will be limited to five years of production.

7. Certified seed will first be offered for sale August 2011. A decision for filing for a P.V.P. application has not been made at this time.

