

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



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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MAY 2010



NATIONAL GRASS
VARIETY REVIEW BOARD

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES
(MAY 2010)

The Association of Official Seed Certifying Agencies (AOSCA), National Grass Variety Review Board reviewed the following varieties on March 4, 2010 in Scottsdale, 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,

Neal Foster, Chair
National Grass Variety Review Board

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B-7.0103, B07.IC1

1. Variety name: _____ Kind: Orchardgrass
 Genus: Dactylis Species: glomerata
 Experimental designation (s): B-7.0103, B07.IC1
 Date submitted: 6 January 2010

2. Remnant seed from each selection cycle of the MO2 and Cycle 2 of WO11 populations selected for seed yield in Oregon. The MO2 population was a six-clone synthetic population derived through a recurrent selection program for resistance to stem rust and the original parental materials collected from old pastures in Missouri. This population was one of four entered in a convergent-divergent selection program directed toward improving forage yield in the Midwest USA while maintaining high seed yield in Oregon. The Oregon two direct selection cycles for seed yield were used in developing B-7.0103 orchardgrass. In the spring of 2006, a nursery was established near Lebanon, OR. The plants came from the seed-yield improved MO2 populations as described above. There were 491 total plants in the nursery, 363 from the three cycles of MO2 populations and 128 from WO11 C2. In 2007, Ninety-five (95) plants that were later maturing than the other plants in the nursery that had high panicle numbers, and that were free of leaf defoliation diseases were selected. All plants were from the MO2 populations except 18 that traced to the WO11 C2 population. The selected plants were bulk harvested and this seed was declared breeder seed in the fall of 2007.
3. B-7.0103 was tested for forage production at two locations in Tennessee and one in Kentucky and is adapted to environments similar to those tested.

4. Growth & Morphology Traits	Heading Date — Day of Year (DOY) Lebanon, OR		Plant Height—cm Lebanon, OR		Panicle Length—cm Lebanon, OR	
	2008	2009	2008	2009	2008	2009
B-7.0103	129	135	111.7	104.9	14.8	13.3
Pennlate	138	141	121.6	105.7	19.0	15.8
Potomac	128	134	107.7	97.3	14.7	13.2
Hallmark	127	131	107.1	94.9	16.6	14.1
LSD (.05)	4.1	6.2	8.9	6.3	2.7	2.2
CV (%)	1.8	2.7	5.1	4.1	10.7	11.1

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

Variants to be expected and frequency: Less than 5% of plants may be shorter than most.

5. Forage Use	Forage Yield—lbs/A					Seasonal Yield Stability—b-value (slope of line)				
	Spring Hill, TN		Cross-ville, TN	Greene-ville, TN	Princeton, KY	Spring Hill, TN		Cross-ville, TN	Greene-ville, TN	Princeton, KY
	2008	2009	2008	2009	2009	2008	2009	2008	2009	2009
B-7.0103	6573	4760	4667	12480	8500	0.86	1.15	0.93	1.09	0.90
Benchmark Plus	6564	5004	4720	11555	8020	1.35	0.77	1.01	0.59	1.14
Megabyte	8012	4932	5984	12887	7420	0.26	0.87	1.49	1.69	0.90
LSD (.05)	1171	783	1223	2511	1060	1.00	0.10	0.14	0.38	0.15
CV (%)	10	10	14	12	9	N/A	N/A	N/A	N/A	N/A

6. Breeder seed of B-7.0103 orchardgrass was first produced in 2007. A supply of B-7.0103 breeder seed is maintained in cold storage by Blue Moon Farms, Lebanon, Oregon. Enough breeder seed was produced in 2007 to last the anticipated life of the B-7.0103. Only the Foundation, Registered and Certified classes are permitted. Foundation stands may only be planted from breeder seed, or from Foundation seed if approved specifically by the breeder. Foundation class production fields established from breeder seed can be harvested for Foundation seed for a maximum of three years followed by Certified class seed for four years. Certified class production fields established from Registered or Foundation seed will be limited to seven years of seed production. The breeder, or an individual designated by the breeder, may approve additional years of seed production.
7. First certified seed will be available in 2010, but it is unknown if PVP will be sought.



B-9.0075, 7.1366, SVJ14

1. Variety name: _____ Kind: Italian (annual) ryegrass
 Genus: Lolium Species: multiflorum
 Experimental designation (s): B-9.0075, 7.1366, SVJ14
 Date submitted: 6 January 2010

2. B-9.0075 is a diploid and was developed through three cycles of dual-location recurrent selection from 1989 to 1991. In each year, three ramets from a spaced-plant nursery at Gainesville, FL were selected and sent to Corvallis, OR to evaluate seed production and resistance to stem rust (caused by *P. graminis* Pers.:Pers.). Seed of selected plants was returned to Gainesville each fall. In spring 2007, seed from the final selection nursery in 1993 were established near Lebanon, OR. The nursery contained 1500 plants and prior to anthesis, plants that were small or weak, were cut from the nursery. The remaining approximately 1200 plants were intercrossed in the nursery. Seed harvested from the selected plants were bulked and designated breeder seed in 2007.

3. B-9.0075 was tested for forage production at two locations in Texas and is adapted to environments similar to those tested.

4. Growth & Morphology Traits	Heading Date — Day of Year (DOY) Lebanon, OR		Plant Height—cm Lebanon, OR		Spike Length—cm Lebanon, OR	
	2008	2009	2008	2009	2008	2009
B-9.0075	143	145	98.8	92.6	26.8	27.9
Gulf	136	144	102.1	74.7	22.6	23.6
Marshall	136	139	104.8	93.0	27.8	30.0
LSD (.05)	3.2	2.6	9.9	12.5	3.7	3.4
CV (%)	1.4	1.1	5.7	8.5	8.5	7.2

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

Variants to be expected and frequency: About 5% plants may be shorter than most, occasional branched spikes.

5. Forage Use	Forage Yield—lbs/A				Crown Rust—score (0-9=dead)			
	Overton, TX		Beaumont, TX		Gainesville, FL	Overton, TX	Beaumont, TX	
	2008	2009	2008	2009	2008	2009	2008	2009
B-9.0075	10172	8408	4107	4401	2.8	0.5	0.0	2.7
Jumbo	10993	9763	4423	3931	1.0	0.0	0.0	1.0
Marshall	11030	8510	3214	3507	7.3	5.3	3.7	6.0
Gulf	9654	9267	3705	3106	Not included	2.0	0.3	3.7
LSD (.05)	1605	1139	564	1232	1.2	0.9	2.1	1.0
CV (%)	11	10	11	26	Not reported	66	11.2	25

6. Breeder seed of B-9.0075 Italian (annual) ryegrass was first produced in 2007. A supply of B-9.0075 breeder seed is maintained in cold storage by Blue Moon Farms, LLC, Lebanon, OR. Enough breeder seed was produced in 2007 to last the anticipated life of the B-9.0075. The Foundation, Registered, and Certified classes are permitted. Foundation seed fields may only be planted from breeder seed. Registered seed fields may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. The breeder, or an individual designated by the breeder, may approve additional years of seed production.

7. First certified seed will be available in 2010, but it is unknown if PVP will be sought.



B-7.0855

1. Variety name: _____ Kind: Alkalaigrass
 Genus: Puccinellia Species: distans
 Experimental designation (s): B-7.0855
 Date submitted: January 2010

2. In Fall 2002, approximately 30 plants from alkalaigrass seed collected from Rhode Island, New Jersey, and England from 1990 to 1999 that originated from the ABT undeveloped germplasm collection were planted. In Summer 2003, seed was collected from approximately 50% of the plants showing pleasing green color and good panicle production. From Fall 2003 to Summer of 2006, approximately 300 plants were planted annually, with approximately 10% harvested each year for pleasing leaf color and panicle number, and the subsequent cycle planted in Fall of each year. In Fall 2006, approximately 1500 plants were planted in space plant nurseries near Lebanon, OR. In Summer 2007, plants were rogued for uniformity of flowering and purple leaf color. Approximately 1000 plants were bulk harvested with breeder seed declared in 2007.

3. B-7.0855 was tested for turf in Colorado and shown to be adapted in this area.

4. Growth & Morphology Traits	Heading Date (Julian) Lebanon, Oregon		Plant Height (cm) Lebanon, Oregon		Panicle Length (cm) Lebanon, Oregon	
	2008	2009	2008	2009	2008	2009
	B-7.0855	150	166	39.2	33.2	11.5
Salty	141	139	54.7	46.4	16.5	14.2
Fults	140	137	51.6	42.1	16.8	14.5
LSD (.05)	3.6	6.1	6.9	7.2	1.4	2.0
C.V. %	1.4	2.4	9.1	10.9	6.0	9.2

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

Variants to be expected and frequency: <5%, slightly taller or more coarse

5. Turf Use	Turf Quality (1-9)		Turf Color (1-9)		Turf density (1-9)		Anthocyanin ratings	
	Colorado		Colorado		Colorado		Colorado	
	2008	2009	2008	2009	2008	2009	2008	2009
a) B-7.0855	4.7	7.4	6.7	6.7	4.0	6.0	0.3	2.0
b) Longfellow II	6.2	4.4	8.8	7.7	7.0	9.0	0.7	2.0
Salty	5.4	5.4	6.0	6.1	7.0	7.0	0.0	1.3
Fults	5.0	6.9	6.2	4.7	7.0	5.0	0.0	1.3
LSD (.05)	0.5	0.5	0.6	0.7	1.1	1.0	0.7	0.7
C.V. %	5.1	4.7	4.3	6.8	11.4	8.0	76.0	24.0

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, darkest green color, higher density. 0-3 with 0 = no anthocyanin.

6. Breeder seed was first produced in 2007. A supply of B-7.0855 breeder seed is maintained in cold storage as seed by Blue Moon Farms, Lebanon, 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/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. It is unknown when certified seed will be available or if PVP will be sought.



B-7.0858

1. Variety name: _____ Kind: Alkalaigrass
 Genus: Puccinellia Species: maritima
 Experimental designation (s): B-7.0858
 Date submitted: January 2010

2. In Fall 2002, approximately 30 plants from alkalaigrass seed collected from Rhode Island, New Jersey, and England from 1990 to 1999 that originated from the ABT undeveloped germplasm collection were planted. In Summer 2003, seed was collected from approximately 50% of the plants showing pleasing green color and good panicle production. From Fall 2003 to Summer of 2006, approximately 300 plants were planted annually, with approximately 10% harvested each year for pleasing leaf color and panicle number, and the subsequent cycle planted in Fall of each year. In Fall 2006, approximately 1500 plants were planted in space plant nurseries near Lebanon, OR. In Summer 2007, plants were rogued for uniformity of flowering and purple leaf color. Approximately 1000 plants were bulk harvested with breeder seed declared in 2007.

3. B-7.0858 was tested for turf in Colorado and shown to be adapted in this area.

4. Growth & Morphology Traits	Heading Date (Julian) Lebanon, Oregon		Plant Height (cm) Lebanon, Oregon		Panicle Length (cm) Lebanon, Oregon	
	2008	2009	2008	2009	2008	2009
	B-7.0858	153	150	38.5	39.9	12.3
Salty	141	139	54.7	46.4	16.5	14.2
Fults	140	137	51.6	42.1	16.8	14.5
LSD (.05)	3.6	6.1	6.9	7.2	1.4	2.0
C.V. %	1.4	2.4	9.1	10.9	6.0	9.2

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

Variants to be expected and frequency: <5%, variants would be slightly taller or more coarse

5. Turf Use	Turf Quality (1-9)		Turf Color (1-9)		Turf density (1-9)		Anthocyanin ratings	
	Colorado		Colorado		Colorado		Colorado	
	2008	2009	2008	2009	2008	2009	2008	2009
a) B-7.0858	4.8	7.3	6.3	5.8	6.0	5.0	0.0	1.0
b) Longfellow II	6.2	4.4	8.8	7.7	7.0	9.0	0.7	2.0
Salty	5.4	5.4	6.0	6.1	7.0	7.0	0.0	1.3
Fults	5.0	6.9	6.2	4.7	7.0	5.0	0.0	1.3
LSD (.05)	0.5	0.5	0.6	0.7	1.1	1.0	0.7	0.7
C.V. %	5.1	4.7	4.3	6.8	11.4	8.0	76.0	24.0

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, darkest green color, higher density. 0-3 with 0 = no anthocyanin

6. Breeder seed was first produced in 2007. A supply of B-7.0858 breeder seed is maintained in cold storage as seed by Blue Moon Farms, Lebanon, 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/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. It is unknown when certified seed will be available or if PVP will be sought.



Dune (IS-CD 7)

1. Variety name: Dune Kind: Bermudagrass
 Genus: Cynodon Species: dactylon
 Experimental designation (s): IS-CD 7
 Date submitted: January 11, 2010

2. The parental germplasm used to develop Dune traces to ecotype selections from Washington and Oklahoma states, and the varieties Mirage and Pyramid. Multiple cycles of recurrent selections were used to develop the variety Dune from phenotype selections made for desirable turf quality traits. The first breeder seed was produced in 2001.
3. Dune is a seeded Bermudagrass developed for use in turf. It was developed for the United States and has been tested extensively in the Bermudagrass growing regions of the United States including; Arkansas, Kansas, Georgia, Oklahoma, Texas and other locations represented in the 2002 NTEP Bermudagrass test.

4. Growth & Morphology	Flag Leaf Length - cm		Flag Leaf Width - mm		Head Exertion - cm	
	2009		2009		2009	
	Oregon	Kentucky	Oregon	Kentucky	Oregon	Kentucky
<i>Dune</i>	2.6	11.8	2.6	1.8	2.7	2.9
<i>AZ Common</i>	3.2	13.8	2.7	2.0	4.0	5.0
<i>Mirage</i>	3.3	11.8	2.9	1.6	2.2	2.2
<i>Pyramid</i>	3.1	13.3	3.1	2.0	2.1	2.5
<i>Yukon</i>	2.0	8.3	1.9	1.2	1.0	1.2
LSD (.05)	0.59	2.73	0.40	0.24	1.38	2.01
CV (%)	14.92	16.17	10.35	9.68	38.41	47.70

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

Variants to be expected and frequency: Less than 5.0%, stable from breeder to foundation

5. Turf Use	Turf Quality – 1-9		Spring Greenup - %		Leaf Texture – 1-9		Spring Ground Cover - %	
	2003-2006		2003-2006		2003-2006		2003-2006	
	Oklahoma	Virginia	Georgia	N. Carolina	Kansas	Arkansas	Illinois	Missouri
<i>Dune</i>	6.4	6.2	73.3	76.7	4.2	5.0	42.1	47.9
<i>AZ Common</i>	5.6	5.4	70.0	76.7	4.3	4.7	4.8	0.0
<i>Riviera</i>	7.0	6.9	85.0	78.3	4.9	5.8	73.2	76.4
<i>Yukon</i>	6.7	6.6	80.0	80.0	6.2	6.1	48.1	86.1
<i>Transcontinental</i>	6.2	6.1	78.3	78.3	4.4	5.2	49.0	29.4
LSD (.05)	0.6	0.7	7.0	6.6	0.9	1.1	26.0	21.5
CV (%)	5.8	7.5	5.7	5.3	12.4	12.5	69.0	62.3

●Scale used to report traits (if appropriate): 1-9; 9=Ideal turf, Very fine

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

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. Seed stock of Dune is maintained by DLF International Seed in cold storage. 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 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 for certification by official seed certifying agencies, certified seed will be first available in 2010. A determination to apply the variety for Plant Variety Protection has not been made.



Mirage 2 (IS-CD 6)

1. Variety name: Mirage 2 Kind: Bermudagrass
 Genus: Cynodon Species: dactylon
 Experimental designation (s): IS-CD 6
 Date submitted: January 11, 2010
2. The parental germplasm used to develop Mirage 2 traces to ecotype collections from the Sichuan Province of China in 1999 and the bermudagrass variety Mirage. Two cycles of recurrent selections were used to develop Mirage 2 from superior phenotypes selected for desirable quality traits. The first breeder seed was produced in 2001.
3. Mirage 2 is a seeded Bermudagrass developed for use in turf. It was developed for the United States and has been tested extensively in the Bermudagrass growing regions of the United States including; Arizona, Arkansas, Kentucky, Tennessee, Oklahoma and other locations represented in the 2002 NTEP Bermudagrass test.

4. Growth & Morphology	Flag Leaf Length - cm		Flag Leaf Width - mm		Head Exertion - cm	
	2009		2009		2009	
	Oregon	Kentucky	Oregon	Kentucky	Oregon	Kentucky
Mirage 2	2.8	12.5	2.9	1.7	3.2	3.5
AZ Common	3.2	13.8	2.7	2.0	4.0	5.0
Mirage	3.3	11.8	2.9	1.6	2.2	2.2
Pyramid	3.1	13.3	3.1	2.0	2.1	2.5
Yukon	2.0	8.3	1.9	1.2	1.0	1.2
LSD (.05)	0.59	2.73	0.40	0.24	1.38	2.01
CV (%)	14.92	16.17	10.35	9.68	38.41	47.70

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

Variants to be expected and frequency: Less than 5.0% , stable from breeder to foundation

5. Turf Use	Turf Quality – 1-9		Spring Greenup - %		Leaf Texture – 1-9		Spring Ground Cover - %	
	2003-2006		2003-2006		2003-2006		2003-2006	
	Kentucky	Arkansas	Georgia	N.Carolina	Kansas	Virginia	Indiana	Missouri
Mirage 2	6.6	5.4	83.3	81.7	4.7	6.5	10.0	68.3
AZ Common	5.4	4.8	70.0	76.7	4.3	5.5	0.0	0.0
Riviera	6.3	6.1	85.0	78.3	4.9	7.2	23.3	76.4
Yukon	6.8	6.2	80.0	80.0	6.2	8.3	40.0	86.1
Numex-Sahara	5.5	4.8	73.3	75.0	4.4	5.8	0.0	0.3
LSD (.05)	0.9	0.6	7.0	6.6	0.9	0.9	12.5	21.5
CV (%)	9.1	7.0	5.7	5.3	12.4	8.4	123.6	62.3

•Scale used to report traits (if appropriate): 1-9; 9=Ideal turf, Very fine,

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

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. Seed stock of Mirage 2 is maintained by DLF International Seed in cold storage. 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 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 for certification by official seed certifying agencies, certified seed will be first available in 2010. A determination to apply the variety for Plant Variety Protection has not been made.



Pyramid 2 (IS-CD 6)

1. Variety name: Pyramid 2 Kind: Bermudagrass
 Genus: Cynodon Species: dactylon
 Experimental designation (s): IS-CD 10
 Date submitted: January 11, 2010
2. The parental germplasm used in the development of Pyramid 2 traces to ecotype selections from the Sichuan Province of China, and the Pacific Northwest, Intermountain West, Midwest, and Southern regions of the United States as well as the PI collection from Griffin, Georgia. Multiple cycles of recurrent selections were used to develop desirable phenotypes for use in turf. The first breeder seed was produced in 2006.
3. Pyramid 2 is a seeded Bermudagrass developed for use in turf. It was developed for the United States and has been tested extensively in the Bermudagrass growing regions of the United States including; Mississippi, Kentucky, Oklahoma, Texas, Louisiana and other locations represented in the 2007 NTEP Bermudagrass test.

4. Growth & Morphology	Flag Leaf Length - cm		Flag Leaf Width - mm		Head Exertion - cm	
	2009		2009		2009	
Traits	Oregon	Kentucky	Oregon	Kentucky	Oregon	Kentucky
<i>Pyramid 2</i>	2.2	9.9	2.3	1.7	2.0	3.0
<i>Pyramid</i>	3.1	13.3	3.1	2.0	2.1	2.5
<i>AZ Common</i>	3.2	13.8	2.7	2.0	4.0	5.0
<i>Yukon</i>	2.0	8.3	1.9	1.2	1.0	1.2
<i>Mirage</i>	3.3	11.8	2.9	1.6	2.2	2.2
LSD (.05)	0.59	2.73	0.40	0.24	1.38	2.01
CV (%)	14.92	16.17	10.35	9.68	38.41	47.70

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

Variants to be expected and frequency: Less than 5.0% stable form breeder to foundation

5. Turf Use	Turf Quality – 1-9		Spring Greenup – 1-9		Leaf Texture – 1-9		Live Ground Cover - %	
	2008		2008		2008		2008	
a)	Mississippi	Oklahoma	Kentucky	Oklahoma	Louisiana	Texas	Kentucky	Mississippi
<i>Pyramid 2</i>	5.7	5.1	6.0	4.7	5.3	6.0	91.3	63.3
<i>Riviera</i>	6.0	5.5	8.3	6.0	5.7	6.0	99.0	90.0
<i>Yukon</i>	5.6	5.0	8.0	2.3	5.0	5.0	99.0	81.7
<i>SunSport</i>	5.1	4.5	3.7	2.7	6.0	5.3	51.7	41.7
<i>NuMex-Sahara</i>	5.0	4.4	2.3	2.3	4.0	4.7	20.0	41.7
LSD (.05)	0.6	0.6	2.1	0.9	0.9	0.6	22.4	9.7
CV (%)	6.9	7.7	22.5	14.4	10.4	7.2	17.3	8.1

•Scale used to report traits (if appropriate): 1-9; 9=Ideal turf, Completely green, Very fine

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

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. Seed stock of Pyramid 2 is maintained by DLF International Seed in cold storage. 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 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 for certification by official seed certifying agencies, certified seed will be first available in 2010. A determination to apply the variety for Plant Variety Protection has not been made.



Checkmate (OG0001)

1. Variety name: Checkmate Kind: Orchardgrass
 Genus: Dactylis Species: glomerata
 Experimental designation (s): OG0001
 Date submitted: January 11, 2010

2. Checkmate orchardgrass was developed using mass selection for seed yield potential, plant health, and late maturity. Plants in a 1-acre center of a production field of the variety Icon were flagged in late spring 2000 for late maturity, plant health, and seed yield traits. At seed harvest time, the 1-acre area was allowed to remain standing for an additional week to allow the flagged plants to mature. Seed of the selected plants was then hand-harvested to form syn-1 breeder seed. Checkmate is later in heading date than Icon.

3. Checkmate has been tested in, is adapted to, and is intended for use as hay in Indiana, Kentucky, Michigan, Ohio, Tennessee, and Wisconsin.

4. Growth and morphology traits	Plant height (cm) Buck Creek, IN		Panicle length (cm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
Checkmate	90.8	93.1	12.1	17.4	26.3	23.3
Command	88.3	93.5	17.7	17.8	27.5	27.0
Haymaster	93.0	92.0	15.7	18.8	27.3	27.0
Icon	94.4	92.9	14.2	16.1	23.8	22.8
LSD(.05)	6.1	8.7	1.4	2.3	2.1	1.8
CV%	5.4	7.9	8.6	11.9	8.6	7.2

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

Variants to be expected and frequency: _____

5. Primary Use	Forage Yields T/A Dry Matter					Stand persistence ^{1/}		
	Franklin, TN			Lansing, MI		Buck Creek, IN	Franklin, TN	
	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2001</u>	<u>2002</u>	<u>2006</u>	<u>2004</u>	<u>2007</u>
Forage								
Checkmate	4.06	8.75	4.48	5.12	5.56	8.0	4.3	6.0
Command	3.99	7.82	4.88	5.37	5.51	7.7	3.7	4.0
Haymaster	3.65	8.27	3.75	4.97	5.54	7.3	3.3	3.7
Icon	3.63	8.60	4.99	4.63	5.41	x	5.0	x
LSD(.05)	0.49	0.48	0.66	0.64	0.72	1.3	1.3	1.8
CV(%)	9.10	7.20	11.40	9.60	9.9	12.1	24.4	26.4

^{1/}Rating: 9>90%, 1<10%; visual estimate of percent ground cover, all 4th year stands.

6. Recognized classes of seed for Checkmate orchardgrass are breeder, foundation, and certified. Syn-1 breeder seed was produced in the Willamette Valley of Oregon in 2003, and is being maintained in cold storage by FFR Cooperative. 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.

7. The first certified seed of Checkmate will be offered for sale in 2010. Plant variety protection will not be sought for this variety.



Arido (TF0203G)

1. Variety name: Arido Kind: tall fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): TF0203G
 Date submitted: January 11, 2010

2. Arido tall fescue was developed using mass selection for drought and grazing tolerance, followed by one cycle of selection for vigor, early maturity, and seed yield potential. Plants of the variety Select were dug from a 6-year old overgrazed, unfertilized and non-irrigated pasture near Milton-Freewater, OR, and transplanted into a spaced-plant nursery near Touchet, WA. After further selection for vigor, early maturity, and seed yield potential, the parent clones of Arido were placed in isolation at Touchet, and syn-1 breeder seed was produced in 2003. Arido is earlier in heading date and more resistant to stem rust than Select.
3. Arido has been tested in, is adapted to, and is intended for use as hay in Indiana, Kentucky, Pennsylvania, Tennessee, Washington, and Wisconsin.

4. Growth and Morphology Traits	Flag leaf width (mm) Buck Creek, IN		Panicle length (cm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
	Arido	4.8	5.9	18.9	23.4	20.3
Fawn	4.7	5.1	18.1	20.5	17.8	18.0
KY-31	5.0	5.8	20.7	23.5	26.0	26.0
Select	5.3	5.7	20.6	22.8	23.8	24.5
LSD(.05)	0.5	0.6	1.5	1.6	0.5	1.2
CV%	7.8	9.0	5.9	5.5	1.9	4.2

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

Variants to be expected and frequency: _____

5. Primary Use	Forage Yields T/A Dry Matter				Stem Rust Resistance ^{1/}		
	Franklin, TN		West Salem, WI		Buck Creek, IN	Franklin, TN	Touchet, WA
	<u>2004</u>	<u>2006</u>	<u>2005</u>	<u>2006</u>	<u>2008</u>	<u>2008</u>	<u>2004</u>
Arido	5.35	5.87	6.02	3.64	2.3	4.3	2.0
KY-31	3.92	5.00	5.34	3.48	4.7	8.3	7.3
Select	4.53	5.05	6.17	3.60	4.3	4.0	6.3
LSD(.05)	0.76	0.87	0.53	0.22	1.1	2.1	2.2
CV%	11.80	13.90	6.60	4.30	21.8	35.7	49.3

^{1/} Stem rust rating: visual field ratings: 1 = little or no infection, 9 = 90% of plants have severe infection.

6. Recognized classes of seed for Arido tall fescue 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.
7. The first certified seed of Arido will be offered for sale in 2010. Plant variety protection will not be sought for this variety



Ginney II (J-2024, 96-2024)

1. Variety name: Ginney II Kind: Kentucky bluegrass
 Genus: Poa Species: pratensis
 Experimental designation (s): J-2024, 96-2024
 Date submitted: January 11, 2010

2. ‘Ginney II’ Kentucky bluegrass originated as an apomictic, single-plant selection from the hybrid progeny of cross 94-0309, created in the field on 27 May 1994. In 94-0309, a plant of ‘PSU33’ Kentucky bluegrass was pollinated by ‘Midnight,’ producing 2.2 g of putative hybrid seed. Eight hundred seed was cleaned and sown in greenhouse flats in spring of 1995, and plants were transplanted into a spaced-plant nursery. PSU33 was an experimental line with short plants, low seed yield, and good turf quality. The last remaining plants of PSU33 were destroyed in 1996. Offspring with characteristics different than PSU33 were selected during maturation in spring of 1996. Plant 96-2024 (the experimental designation for Ginney II) was identified as being unique from PSU33 by the leaf color and texture of its vegetative plants, prior to heading. Breeder seed was first produced in 2004 and 2005 and first experimental Certified seed in 2008.

3. Ginney II’s primary application is turf. It has been tested and is adaptable in ID. It is in the 2005 National Turfgrass Evaluation Program, 2005 test, and has been tested and found adaptable in IL, IN, IA, KY, MD, MA, MI, MN, NE, NJ, NM, NY, NC, ND, OK, PA, TN, UT, VA, WA, WI, and WY.

4. Growth & Morphology	Plant Height (cm)		Flag Leaf Height (cm)		Inflorescence length (cm)	
	2007		2007		2007	
	Rathdrum, ID	Nine Mile, WA	Rathdrum, ID	Nine Mile, WA	Rathdrum, ID	Nine Mile, WA
Traits						
<i>Ginney II</i>	52.5	50.9	27.9	26.2	6.1	6.6
<i>Midnight</i>	48.8	45.3	25.8	22.3	6.0	5.6
<i>Limousine</i>	50.3	45.2	26.3	21.6	6.3	5.8
<i>Nugget</i>	32.3	31.0	12.7	11.4	5.1	4.8
<i>Touchdown</i>	65.7	62.0	37.3	33.3	8.1	8.5
<i>Impact</i>	51.2	50.0	25.7	24.4	6.0	6.3
LSD (.05)	2.5	2.6	2.5	2.4	0.46	0.49
Variance %	11.5	11.7	21.8	21.7	16.54	17.64

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

Variants to be expected and frequency:

Progeny trials were conducted in spaced-plant nurseries, on a portion of the breeder block itself, established near Post Falls in 2003, to determine the level of apomixis. Among 203 Ginney II plants, 2% were variants in vegetative characteristics (pre-flowering), 1.5% were heading maturity variants, 1% were seedhead variants, 1.5% were miniature plants, and 0.5% were headless plants. In spaced-plant nurseries, Ginney II averaged 93.6% apomictic. In commercial seed production, apomixis typically can vary from this figure depending upon weather, location, and year.

5. Turf Use	Turf Quality Appendix Table		Leaf Spot		Seedling Vigor		Density	
	NTEP Means		Turf Trials		Turf Trials		Turf Trials	
	2006	2007	OH	MD	ID	OH	OH	MD
<i>Ginney II</i>	6.3	5.9	7.7	7.3	9.0	5.0	6.0	3.7
<i>Midnight</i>	6.4	5.9	5.7	4.7	4.8	3.7	7.7	5.0
<i>Award</i>	6.2	5.9	2.5	4.5	5.0	3.5	7.5	3.0
<i>Impact</i>	6.2	6.0	7.0	5.0	5.0	3.5	8.0	4.0
<i>NuGlade</i>	6.4	5.8	5.0	4.0	8.0	4.0	7.0	6.0
LSD (.05)	0.2	0.2	1.8	1.3	2.6	1.3	1.5	1.3
Variance %	9.8	11.5	18.6	18.7	28.6	18.4	13.2	18.9

●Scale used to report traits : 1-9, 1 being poor, 9 being superior

●All turf trials planted in 2004 in: Post Falls, Idaho, New Carlisle, Ohio, and Poolesville, Maryland.

6. Jacklin Seed by Simplot® maintains the Breeder seed. Breeder seed is maintained in cold storage and periodically regenerated as needed. Seed classes recognized are Foundation, Registered, and Certified with stand lengths 3, 3, and 6 years, respectively
7. First experimental certified seed of Ginney II is expected to be available in 2010. As of this time we do not plan to seek a PVP.



Hollywood (J-720)

1. Variety name: Hollywood Kind: bermudagrass
 Genus: Cynodon Species: Dactylon Pers.
 Experimental designation (s): J-720
 Date submitted: January 3, 2010

2. 'Hollywood' is a seeded, turf-type bermudagrass (*Cynodon dactylon* [L.] Pers) bred by Jacklin Seed by Simplot® of Post Falls, ID. Hollywood was tested as J-720. Hollywood was developed for turfgrass use with improved quality and cold tolerance. Hollywood was developed from 5 clones collected from old turf areas in the United States. Three of the clones: 02-0014, 02-0030, and 02-0035 in Hollywood were selections from a Jacklin experimental population, J-557, developed from an 8 plant polycross in 1993. The 8 plants in J-557 were developed from the maternal progenies of clones collected in June 1987 in Walla Walla, WA. Another clone in Hollywood was 94-1044, collected July 1994 from a public golf course in Greenville, SC. The fifth clone used in the development of Hollywood was 05-1001. It was one of 4 plants in a 2004 Post Falls, Idaho nursery of over 2000 that did not winterkill. 05-1001 is a progeny selection from 00-0164, the progeny harvested from 98-0104 planted in polycross 00-8001 with 223 Jacklin experimentals in Brawley, CA. 98-0104's identification was lost when harvesting material from the 1996 Post Falls, ID nursery. By 2005, only 18% of the entries had survived through three winters in the 2002 Post Falls spot plot turf trial and they were deemed cold tolerant. Seven clones (02-0014, 02-0030, 02-0035, 02-0113, 02-0116, 02-0121, and 02-0196) from the 2002 spot plot turf trial at Post Falls, ID and 05-1001 from the 2004 nursery were selected and sprigged. In October 2005 they were transplanted into an approximately 3300-plant isolation block near Brawley, CA. During April and May of 2006, three of the lines were removed due to low seedhead initiation. The lines remaining, 02-0014, 02-0030, 02-0035, 02-0116, and 05-1001 were encouraged to fill in the rest of the block through the summer and fall. Breeder seed was harvested in December 2006.
3. Hollywood was developed for turfgrass use and is recommended for golf course fairways and roughs, home lawns, parks, business landscapes, sports areas in warm humid, warm semiarid regions and warmer areas of the transition zone. Hollywood was entered in 2007 NTEP bermudagrass test. Hollywood had turf quality comparable to the top seeded entry in 8 locations: NC, MS, OK, FL, KY, TX, FL, and AZ. In this trial, Hollywood was comparable to the top entry for leaf texture and spring, summer, and fall density.

4. Growth & Morphology	Plant Height (cm)		Spike length (cm)		Flagleaf length (cm)	
	Year or Location		Year or Location		Year or Location	
	ID 2009	WA 2008	ID 2009	WA 2008	ID 2009	WA 2008
Hollywood	21.5	11.5	3.1	3.7	2.0	1.9
Riviera	19.2	8.7	2.9	3.0	1.8	2.0
Arizona Common	28.5	20.0	3.5	4.7	3.1	2.8
LSD (.05)	2.1	1.4	0.4	0.3	0.7	0.7
Variance	22.0	35.5	22.1	22.5	61.0	75.0

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

Variants to be expected and frequency:

Less than 5% variants have been found in production and they can be identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the Hollywood plants. These variants are routinely rogued from seedstock fields.

5. Turf Use	Turf Quality		Leaf texture	Spring density	Summer density
	2008		2008	2008	2008
	NC 2008	AZ 2008	*	*	*
Hollywood	6.1	6.1	6.2	6.7	6.6
Riviera	6.7	6.0	6.4	6.8	6.7
Numex-Sahara	5.1	5.4	5.1	5.0	5.6
LSD (.05)	0.6	0.6	0.4	0.5	0.4
Variance	6.6	6.6	12.7	10.3	11.4

•Scale used to report traits (if appropriate): 1-9 where 9 = best

*Leaf texture was rated in AZ1, FL1, KY1, LA1, MS1, NC1, OK1, TX1, TX2 in 2008. Spring density was measured in, AZ1, CA3, FL1, TX1 Summer density was measured in AZ1, FL1, FL3, LA1, MS1, NC1, TX1, TX2

6. Breeder seed of Hollywood is maintained by Jacklin Seed by Simplot®. Original Breeder seed is maintained in cold storage and should be enough to last the anticipated life of the variety. If new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed. Propagation is limited to three cycles of increase: Foundation, Registered, and Certified and length of stands are 3, 3, and 6 years, respectively.
7. Certified seed is expected to be available for sale in 2011. A PVP is not currently planned.



Marco Polo (JF-8)

1. Variety name: Marco Polo Kind: Sheep fescue
 Genus: Festuca Species: Ovina L.
 Experimental designation (s): JF-8
 Date submitted: December 18, 2009

2. Marco Polo (JF-8) is a sheep fescue (*Festuca ovina L.*) cultivar developed by Jacklin Seed by Simplot®, Post Falls, ID and released in July 2008. Marco Polo was selected for turfgrass use and improved seed yield. Marco Polo was selected from the maternal progenies of 8 clones. The maternal parentage of Marco Polo is derived from 24% Azure and 76% was a sheep x hard fescue (*Festuca longifolia*) breeding population purchased in the ABT bankruptcy and never released. In 2002, 8 clones were selected from a 15900-spaced plant fine fescue nursery planted in 2001 in Post Falls. In 2003, progeny from the clones were planted in a 14000-plant nursery at Post Falls. In 2004, 8 plants were selected from these lines and harvested. In 2005, progeny from the 8 plants was planted in a 3300-plant isolation block designated JF-8 sheep/hard fescue at Post Falls. Before anthesis in 2006, this block was heavily rogued removing plants that had low seed head initiation, winter damage and prostrate growth habit. First Breeder seed was harvested in June 2006. Marco Polo's leaf color appears to be influenced by fertility level, time of year and prevailing temperatures. Our observations show plants appear blue after fertilization and during the winter months. This is not considered a variant and individual plants have been observed that have both green and blue leaves on the same plant.

3. Marco Polo is a turf type sheep fescue ideally suited for low maintenance areas; including golf course roughs, roadsides, berms, and reclamation sites, but has moderate performance under higher maintenance conditions. Marco Polo has been tested in company trials in Post Falls, ID and New Carlisle, OH since 2007 and has had good performance at these locations.

4. Growth & Morphology	Plant height (cm)		Flagleaf length (cm)		Panicle length (cm)	
	2009		2009		2009	
	Idaho	Washington	Idaho	Washington	Idaho	Washington
Marco Polo	35.2	38.4	3.9	5.3	8.5	9.6
MX-86	40.5	43.3	3.8	5.3	8.7	9.9
Azure	36.6	38.5	3.1	4.7	6.9	9.0
LSD (.05)	2.5	2.0	0.5	0.5	0.6	0.6
Variance	16.7	15.6	37.9	28.4	20.1	20.1

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

Variants to be expected and frequency:

Less than 5% variants having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the Marco Polo plants.

5. Turf Use	Turf Quality		Seed Vigor 1-9		Color 1-9		Density 1-9	
	Year or Location**		Year or Location**		Year or Location**		Year or Location**	
	2007-09		2008-09		2008-09		2008-09	
a)	OH	2007-09 ID	2007 ID	2008 ID	2008-09 ID	OH	2008-09 ID	2007-09 ID
Marco Polo	5.7	5.0	3.8	5.8	6.5	7.0	5.3	7.0
MX-86	4.1	4.0	3.5	5.3	5.5	6.7	3.8	4.5
07-8001	5.9	4.5	3.6	-	-	-	-	7.0
Berkshire	4.9	4.0	4.0	6.3	6.5	7.0	5.3	6.5
LSD (.05)	1.0	1.0	2.0	2.2	2.2	1.2	2.8	1.7
Variance	15.1	13.4	25.0	15.4	15.0	11.0	22.9	14.0

●Scale used to report traits (if appropriate): 1-9 where 9 = best

6. Seed classes recognized are Foundation, Registered and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Jacklin Seed by Simplot® maintains the Breeder seed. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.

7. Experimental certified seed was first sold on July 27, 2008. PVP will not be applied for.



C-72

1. Variety name: Not Yet Named Kind: Perennial ryegrass
 Genus: Lolium Species: perenne L.
 Experimental designation(s): C-72
 Date submitted: December 15, 2009

2. C-72 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: Frontier, Fiji, Pennant III and Wind Dance 2. 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 potential. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selections for high seed yield, abundant tillering, good turf quality and dark green color were crossed to produce the first breeder seed in 2006.

3. C-72 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, OR			Plant Height (cm) Verboort, OR			Flag Leaf Length (cm) Verboort, OR		
	2007	2008	Average	2007	2008	Ave.	2007	2008	Ave.
Linn	127.2	116.1	121.7	76.1	74.0	75.1	19.4	18.8	19.1
Pinnacle	138.0	125.0	131.5	45.1	58.9	52.0	13.6	17.5	15.6
C-72	132.5	138.4	135.4	57.1	54.3	55.7	14.2	14.8	14.5
Manhattan II	135.8	143.2	139.5	60.4	56.7	58.6	19.8	19.2	19.5
Elka	155.1	148.2	151.6	37.0	43.5	40.2	14.3	14.8	14.5
LSD @ 0.05	4.6	3.3		7.6	5.9		2.8	3.3	
SE	2.2	1.6		3.7	2.9		1.4	1.6	

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

Variants (if any) of taller and lighter green plants may be observed in <1% of the population beyond the breeder generation.

5. Turf Use	Turf Quality		Color		Density		Texture	
	OR	PA	OR	PA	OR	PA	OR	PA
C-72	8.1	7.1	7.3	5.5	7.7	6.0	7.7	7.3
Applaud	7.1	6.0	7.0	5.0	6.8	4.9	7.1	6.8
Linn	3.0	2.3	2.1	1.2	1.8	1.6	2.0	1.8
Manhattan II	2.4	2.4	5.1	3.3	1.9	2.1	5.6	4.5
Pinnacle	4.6	4.2	4.0	2.8	4.3	2.8	5.3	4.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5

6. A supply of C-72 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 2010. PVP may be sought with the certification option.



APR1915

1. Variety name: _____ Kind: Perennial Ryegrass
 Genus: Lolium Species: perenne
 Experimental designation (s): APR1915
 Date submitted: December 15, 2009

2. The perennial ryegrass (*Lolium perenne*) APR1915 was developed from various cycles of recurrent phenotypic selection. Each cycle was used to improve the genetic color, yield potential, and disease resistance. APR1915 traces its parentage to selections made from commercially available cultivars.

In the fall of 1985 a plant selection field was established in Vlijmen, the Netherlands. The cultivars used were; All Star, Pennant, and Premier. In the fall of 1987, a plant selection field was established in Vlijmen, the Netherlands. The selection field contained Lp 1408, Barclay, Omega II, Manhattan II, Birdie II, SR 4000, SR 4100 and Elka. The selections from the 8 lines were moved to an isolated crossing block before floral initiation. The polycross block was harvested in bulk in the summer of 1988.

In the fall of 1990 a plant selection field was established in Albany, Oregon. The selection field contained the polycross material from the Netherlands. In the spring of 1991, selections were made from each experimental line from the plant selection field. Selections were based on genetic color, crown density, freedom from disease (*Puccinia coronata* and *Puccinia graminis*), and number of inflorescence. In the fall of 1993 a plant selection field was established. Selections were based on genetic color, crown density, freedom from disease (*Puccinia graminis*), and number of inflorescence. The selected plants were harvested in bulk and established in a turf trial near Salem, NJ in the fall of 1994. Survivors were removed in the fall of 1997. The seed was planted in a single spaced plant nursery in the fall of 1998. A polycross block was formed in the summer of 1999. The polycross block was harvested in bulk in 2000. This seed was planted in a turf trial near Salem, NJ in the fall of 2001. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). The survivors were returned to Albany, OR and planted in isolation and harvested in bulk the summer of 2002. A turf trial was planted near Salem, NJ, in early September 2002. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). The survivors were returned to Albany, OR and planted in isolation and harvested in bulk the summer of 2003. A turf trial was planted near Salem, NJ, in early September 2003. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). The survivors were returned to Albany, OR and planted in isolation and harvested in bulk the summer of 2004. An increase block was established in the fall of 2004. In the summer of 2005 the block was harvested in bulk and designated APR1915, breeder seed.

3. APR1915 has been tested for turf quality under lawn conditions near Albany, OR. The data indicates that APR1915 is suitable for turf used in this area.

4. Growth & Morphology	Heading Date (Julian days)		Mature Plant Height (cm)		Flag Leaf Height (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2007	2008	2007	2008	2007	2008
APR1915	137.67	141.00	56.20	51.43	27.73	31.83
Hawkeye	136.67	123.00	55.87	54.83	31.10	35.07
Pinnacle	131.67	153.00	57.17	58.50	31.23	35.07
Manhattan II	127.00	135.67	59.93	60.50	31.23	35.23
LSD (.05)	2.19	1.14	2.07	4.10	1.57	2.89
C.V.	3.32	1.53	2.52	5.12	3.65	5.89
Data collected from:	Spaced single plants		X Plants in rows/solid seeding			
Variants to be expected and frequency:	No variants observed.					

5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	2007	2008	2007	2008	2007	2008	2007	2008
APR1915	5.05	5.25	5.55	5.65	5.55	6.65	5.00	5.50
Palmer IV	6.75	6.90	5.80	5.85	6.60	7.40	6.25	6.45
Integra II	6.65	6.70	6.15	6.25	6.55	7.15	6.20	6.35
Manhattan V	6.45	6.40	6.35	6.15	7.05	7.10	6.50	6.70
LSD (.05)	0.43	0.55	0.46	0.49	0.67	0.48	0.42	0.41
C.V.	4.00	5.02	4.41	4.79	5.80	3.98	3.93	3.85

●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.

6. APR1915 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 breeder.

7. If APR1915 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.



APR2037

1. Variety name: _____ Kind: Perennial Ryegrass
 Genus: Lolium Species: perenne
 Experimental designation (s): APR2037
 Date submitted: December 15, 2009

2. The perennial ryegrass APR2037 was developed from various cycles of recurrent phenotypic selection. Each cycle was used to improve the genetic color, yield potential, and disease resistance. APR2037 traces its parentage to selections from experimental lines and commercially available cultivars.

A turf trial was planted near Salem, NJ in early September, 2002. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The trial was severely damaged and 25 survivors were removed from each of 17 lines in November, 2002. The survivors were returned to Albany, OR and each line was planted in isolation.

The 17 lines were harvested in bulk the summer of 2003. In the fall of 2003, a single spaced plant nursery was established. The plant selection field contained the 17 lines with 100 plants per cultivar, replicated three times, for a total of 5100 plants.

In the spring of 2004, sixty-three clones were selected from across lines from the plant selection field. Selection was based on genetic color, crown density, freedom from disease (*Puccinia coronata* and *Puccinia graminis*), and number of inflorescence. The selection was moved to an isolated crossing block, and designated APR1926.

The block was harvested by progeny in the summer of 2005. A turf trial was planted near Salem, NJ, in early September 2005. The trial contained the 63 experimental lines. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The trial was severely damaged and the top 15 progeny lines had 10 survivors from each line removed, in November, 2005. The survivors were returned to Albany, Oregon and planted in isolation and designated APR2037.

APR2037 was harvested in bulk and designated breeder seed in 2006.

3. APR2037 has been tested for turf quality under lawn conditions near Salem, NJ. The data indicates that APR2037 is suitable for turf used in this area.

4. Growth & Morphology Traits	Heading Date (Julian days) Albany, OR		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2007	2008	2007	2008	2007	2008
	APR2037	142.67	143.33	53.40	49.60	29.13
Hawkeye	136.67	123.00	55.87	54.83	31.10	35.07
Pinnacle	131.67	158.00	57.17	58.50	31.23	35.07
Manhattan II	127.00	135.67	59.93	60.50	31.23	35.23
LSD (.05)	2.19	1.14	2.07	4.10	1.57	2.89
C.V.	3.32	1.53	2.52	5.12	3.65	5.89
Data collected from: <input checked="" type="checkbox"/> Spaced single plants <input type="checkbox"/> Plants in rows/solid seeding						
Variants to be expected and frequency: <input type="checkbox"/> No variants observed.						

5. Turf Use	Genetic Color Salem, NJ		Density Salem, NJ		Cover Salem, NJ		Turf Quality Salem, NJ	
	2007	2008	2007	2008	2007	2008	2007	2008
	APR2037	7.00	5.80	5.67	4.90	8.00	7.20	8.00
Palmer V	5.70	6.50	4.60	5.00	7.30	8.00	5.13	7.33
Integra II	5.43	6.50	4.67	5.83	7.10	8.00	4.93	7.83
Prelude IV	5.23	5.50	4.43	3.50	6.77	7.17	4.70	5.67
Manhattan II	3.33	3.17	3.67	4.67	5.67	6.50	3.33	4.17
LSD (.05)	0.39	0.49	0.68	0.73	0.58	0.47	0.51	0.62
C.V.	5.24	5.80	11.13	10.83	6.14	4.54	7.77	6.60

●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. APR2037 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 breeder.

7. If APR2037 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.



APR2038

1. Variety name: _____ Kind: Perennial Ryegrass
 Genus: Lolium Species: perenne
 Experimental designation (s): APR2038
 Date submitted: December 15, 2009

2. The perennial ryegrass APR2038 was developed from various cycles of recurrent phenotypic selection. Each cycle was used to improve the genetic color, yield potential, and disease resistance. APR2038 traces its parentage to selections from three commercially available cultivars.

A turf trial was planted near Salem, NJ in early September. The trial contained Prelude GLS, SR 4550 and Integra II. 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 from each of the 3 cultivars in November, 2004. The survivors were returned to Albany, OR and each line was planted in isolation.

The three lines were harvested in bulk. A turf trial was planted near Salem, NJ in early September. The trial contained the three experimental lines. 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 from each of the 3 lines in November, 2005. The survivors were returned to Albany, OR and planted randomly in isolation and designated APR2038. APR2038 was harvested in bulk and designated breeder seed in 2006.

3. APR2038 has been tested for turf quality under lawn conditions near Salem, NJ. The data indicates that APR2038 is suitable for turf use in this area.

4. Growth & Morphology Traits	Heading Date (Days after March 1,) Albany, OR		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2008	2009	2008	2009	2008	2009
	APR2038	49.67	48.00	61.40	61.87	35.10
Palmer IV	52.67	51.67	58.80	56.30	34.40	34.40
Pinnacle	44.33	42.00	65.00	65.33	35.77	39.00
Manhattan II	41.67	39.67	67.60	67.80	35.43	39.67
LSD (.05)	1.65	2.31	3.75	3.39	2.78	2.63
C.V.	2.21	3.21	3.74	3.40	4.99	4.41

Data collected from: Spaced single plants Plants in rows/solid seeding
 Variants to be expected and frequency: No variants observed.

5. Turf Use	Genetic Color Salem, NJ		Density Salem, NJ		Cover Salem, NJ		Turf Quality Salem, NJ	
	2007	2008	2007	2008	2007	2008	2007	2008
	APR2038	5.13	5.67	4.73	5.33	7.13	8.00	4.87
Palmer V	5.70	6.50	4.60	5.00	7.30	8.00	5.13	7.33
Integra II	5.43	6.50	4.67	5.83	7.10	8.00	4.93	7.83
Prelude IV	5.23	5.50	4.43	3.50	6.77	7.17	4.70	5.67
Manhattan II	3.33	3.17	3.67	4.67	5.67	6.50	3.33	4.17
LSD (.05)	0.39	0.49	0.68	0.73	0.58	0.47	0.51	0.62
C.V.	5.24	5.80	11.13	10.83	6.14	4.54	7.77	6.60

• 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):

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. APR2038 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 breeder.

7. If APR2038 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.



ATF480

1. Variety name: _____ Kind: Tall Fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): ATF480
 Date submitted: December 15, 2009

2. A seed source was obtained from Rutgers University in 1988. This seed originated from half-sib progenies from 22 clones from ecotype collections throughout the United States. A single spaced plant nursery was established. The nursery was evaluated for freedom from disease and mature plant height over 2 years. A polycross group was formed pre-anthesis. Seed was harvested in bulk from the polycross block. A single space plant nursery was established in the fall of 1992. A polycross group was formed pre-anthesis based on dwarf growth habit, uniform heading and leaf fineness. The polycross was harvested in bulk and a 5 grams were sent to the U of KY for endophyte inoculation. The spring of 1994 69 inoculated plants were returned. The plants were harvested in bulk. Five thousand single plants were planted in a greenhouse in the fall. The plants were rated for fine leaf texture and low vertical growth. A polycross group was formed and harvested in bulk. This seed was used to plant 5,000 single plants in the greenhouse. The plants were rated as before and a polycross group was formed. The seed was harvested in bulk in 1997. This seed was designated ATF480, breeder seed.

3. ATF480 has been tested for turf quality under turf conditions near Salem, NJ and Vlijmen, the Netherlands. The data indicates that ATF480 is suitable for turf used in these areas.

4. Growth & Morphology	Heading Date Albany, OR		Mature Plant Height Albany, OR		Flag Leaf Height Albany, OR	
	2008	2009	2008	2009	2008	2009
ATF480	76.33	63.00	87.30	101.07	40.53	58.53
Crewcut	74.67	63.00	107.07	124.73	50.17	72.50
Rebel II	72.67	60.00	123.93	133.70	58.57	83.00
KY-31	71.00	59.33	142.50	150.07	74.37	96.30
CV	1.93	2.30	3.79	1.90	3.83	3.37
LSD (.05)	2.05	2.03	5.95	3.29	2.85	3.49

Data collected from: Spaced single plants Plants in rows/solid seeding
 Variants to be expected and frequency: No variants observed.

5. Turf Use	Genetic Color		Brown Patch (Rhizoctonia solani)		Turf Quality		Red Thread (Laetisaria fruciformis)	
	Salem, NJ		Salem, NJ		Salem, NJ		Vlijmen, the Netherlands	
	2002	2003	2002	2003	2002	2003	1998	1999
ATF480	4.67	5.17	4.83	3.33	4.51	4.17	6.30	7.70
Penn 1901	6.08	6.00	6.08	5.67	5.33	5.22	6.30	5.70
Tulsa	4.83	5.00	5.17	3.67	4.80	4.72	5.00	4.30
Ninja	4.50	5.67	5.33	6.00	4.61	4.67	4.00	3.70
KY-31	2.50	3.17	5.42	4.67	2.69	2.83	1.70	3.33
CV	7.46	7.56	14.43	22.96	5.32	8.79	4.86	5.25
LSD (.05)	0.49	0.55	1.11	1.55	0.36	0.59	5.57	7.36

●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. Vlijmen data reported 1-9 scale; 9 = most disease resistant.

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

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. ATF480 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 breeder.

7. If ATF480 is accepted by official seed certifying agencies, Certified seed will be first offered for sale fall of 2010. At this time Plant Variety Protection (PVP) will not be sought.



ATF1223

1. Variety name: _____ Kind: Tall Fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): ATF1223
 Date submitted: December 15, 2009

2. In the fall of 2001, a turf trial was established at the University of Arkansas, Fayetteville, AR. This trial contained Cortex II, Regiment II, Tuxedo, Constitution, Finesse II, 2nd Millennium, Titanium, Lexington, Focus, Forte' and Rebel Exeda. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors from the turf plots were removed in September after recovery from infection by *Rhizoctonia solani* and heat stress. Twenty-five plants of each line were returned to Albany, OR and planted in an isolated multiplication block. The twenty-five plants were harvested in bulk. In the fall, a single spaced plant nursery was established containing the eleven turf trial selections. The nursery was replicated five times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture and number of seed heads. Seventy-nine plants were selected before floral initiation in the spring. The 79 plants were moved to an isolated polycross block. The block was allowed to interpollinate. The block was harvested in bulk. This seed was designated ATF1223. In the fall, a 2500 plant increase block was established in isolation. In 2005 the block was harvested in bulk and designated ATF1223, breeder seed.
3. ATF1223 has been tested for turf quality under lawn conditions near Salem, NJ. The data indicates that ATF1223 is suitable for turf used in this area.

4. Growth & Morphology Traits	Heading Date (Days after March 1, Albany, OR)		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2008	2009	2008	2009	2008	2009
	ATF1223	71.33	59.67	107.13	115.80	51.27
Crewcut	74.67	63.00	107.07	124.73	50.17	72.50
Rebel II	72.67	60.00	123.93	133.70	58.57	83.00
KY-31	71.00	59.33	142.50	150.07	74.37	96.30
LSD (.05)	2.05	2.03	5.95	3.29	2.85	3.49
C.V.	1.93	2.30	3.79	1.90	3.83	3.37

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

Variants to be expected and frequency: _____ No variants observed.

5. Turf Use	Genetic Color Salem, NJ		Density Salem, NJ		Cover Salem, NJ		Turf Quality Salem, NJ	
	2007	2006	2007	2006	2007	2006	2007	2006
	ATF1223	5.30	5.53	5.40	4.80	7.50	7.97	5.63
Rebel Exeda	5.40	5.63	5.07	4.93	6.90	7.97	5.40	5.87
Grande II	4.97	5.20	4.90	5.00	7.17	7.73	5.30	5.63
Falcon IV	4.83	5.20	5.23	5.40	7.00	8.13	5.33	5.93
KY-31	3.37	3.40	3.90	4.10	5.87	7.50	3.87	4.37
LSD (.05)	0.44	0.41	0.72	0.59	0.76	0.62	0.55	0.51
C.V.	6.08	5.89	10.42	8.98	8.10	5.84	7.69	6.66

●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):

**If necessary, identify locations in line b) by the following key A: _____ B: _____

6. ATF1223 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 breeder.
7. If ATF1223 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.



Allsport 3 (NA-C3X)

1. Variety name: Allsport 3 Kind: Perennial Ryegrass
 Genus: Lolium Species: Perenne
 Experimental designation (s): NA-C3X
 Date submitted: January 11, 2009

2. Allsport 3 perennial ryegrass was selected by Novel AG, Inc. in Saint Paul, Oregon from the progenies of plants selected for medium early maturity, an intermediate growth habit, strong presence of plant tillering and improved crown density, very dark green color, improved seedhead production and improved stem rust resistance. Approximately 35% of the germplasm used in the development of Allsport 3 perennial ryegrass traces to plants selected from the Breeder seed progeny of Allsport 2 perennial ryegrass and used in advanced breeding programs. The balance (65%) of the germplasm used to develop Allsport 3 traces to selected sources from the experimental populations of "PIR" and "BWP". During the spring of 2006 plants were continuously rouged and evaluated for a very dark green color, medium early maturity, a high level of resistance to stem rust and overall uniformity. Approximately 2,040 of the best plants were allowed to inter-pollinate and mature and the seed was bulk harvested and declared the breeder seed of Allsport 3, July of 2006.

3. Allsport 3 was tested for turf use in St. Paul, OR and is adapted to this area.

4. Growth & Morphology	Heading Date St. Paul, OR		Plant Height (cm) St. Paul, OR		Flag Leaf Length(cm) St. Paul, OR	
	2008	2009	2008	2009	2008	2009
Allsport 3	5-15	5-20	51.4	57.8	13.2	12.1
Allsport 2	5-19	5-24	47.5	49.4	12.1	14.8
Linn	5-9	5-6	68.9	71.2	14.7	11.9
Pinnacle	5-15	5-20	54.2	57.9	13.8	11.1
Manhattan 2	5-21	5-25	52.1	53.2	12.9	11.5
LSD (.05)	1.6	1.8	4.5	2.3	1.7	1.7
S.E.	1.2	1.4	2.4	.7	.9	.6

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

Variants to be expected and frequency:

No off-type or variant plants have been observed. In any case any occurrence of off-type or variants should be rogued in the Breeder seed and Foundation seed generations

5. Turf Use	Turf Quality		Genetic Color		Summer Density		Leaf Texture	
	St. Paul, OR		St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2008	2009	2008	2009	2008	2009	2008	2009
Allsport 3	7.1	6.6	7.3	7	8	8.4	6.7	7
Allsport 2	6.3	6	5.7	5.7	7	6.7	5.3	5.7
Pennfine	3.2	2.7	4	4	4.3	3.7	4	4
Manhattan 2	5.7	5.3	5.7	5	5	5	5.7	5.3
Linn	2	1.7	1	1.3	1.3	1	2.3	1.7
LSD (.05)	1.3	.9	.3	.6	1.2	1.1	.9	1.1
s.e.	.4	.6	.8	.7	1.4	1.3	.8	.6

●Scale used to report traits (if appropriate):1-9, 9= best quality, least disease, darkest green, finest texture

6. Breeder seed of Allsport 3 was first produced in 2006. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon. Generations of seed increase shall follow breeder seed as foundation and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Certified class production fields established from foundation seed will be limited to 4 years of seed production. Additional years of seed production may be approved by Novel AG, Inc.

7. Certified seed is anticipated to be available in July of 2010. PVP certification option has not been determined at this time.



CONFETTI 2 (MVS-071)

1. Variety name: CONFETTI 2 Kind: Perennial Ryegrass
 Genus: Lolium Species: Perenne
 Experimental designation (s): MVS-071
 Date submitted: January 11, 2010

2. CONFETTI 2 perennial ryegrass is selected by Novel AG, Inc. in Saint Paul, Oregon from the progenies of plants selected for medium maturity, a low growth habit, strong presence of plant tillering and improved crown density, dark green color, improved seedhead production and improved stem rust resistance. Approximately 48% of the germplasm used in the development of CONFETTI 2 perennial ryegrass traces to plants selected from the Breeder seed progeny of Confetti perennial ryegrass and used in advanced breeding programs. The balance (52%) of the germplasm used to develop CONFETTI traces to selected sources from the experimental populations of "PIR", Celilo, and BWP. All of the plants were continuously observed and were rouged for uniformity of type, color, and disease resistance. Ultimately 34 plants were selected from the Confetti progeny and 37 plants were selected from the combined grouping of PIR x Celilo and BWP progenies. These plants were isolated and allowed to inter-pollinate and this seed was bulk harvested and declared the breeder seed of CONFETTI 2 (MVS-071) in July of 2007.

3. CONFETTI 2 was tested for turf use in St. Paul, OR and has shown good adaptation there..

4. Growth & Morphology	Heading Date St. Paul, OR		Plant Height (cm) St. Paul, OR		Flag Leaf Length(cm) St. Paul, OR	
	Traits		2008 2009		2008 2009	
	2008	2009	2008	2009	2008	2009
CONFETTI 2	5-18	5-20	48.7	52.3	11.9	12.7
Allsport 2	5-19	5-24	47.5	49.4	12.1	14.8
Linn	5-9	5-6	68.9	71.2	14.7	11.9
Pinnacle	5-15	5-20	54.2	57.9	13.8	11.1
Manhattan 2	5-21	5-25	52.1	53.2	12.9	11.5
LSD (.05)	1.6	1.8	4.5	2.3	1.7	1.7
S.E.	1.2	1.4	2.4	.7	.9	.6

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

Variants to be expected and frequency: No off-type or variant plants have been observed. In any case any occurrence of off-type or variants should be rouged in the Breeder seed and Foundation seed generations

5. Turf Use	Turf Quality		Genetic Color		Summer Density		Leaf Texture	
	St. Paul, OR		St. Paul OR		St. Paul, OR		St Paul, OR	
	2008	2009	2008	2009	2008	2009	2008	2009
CONFETTI 2	7.3	6.7	6.7	7	8.3	8.3	7	7.3
Allsport 2	6.3	6	5.7	5.7	7	6.7	5.3	5.7
Pennfine	3.2	2.7	4	4	4.3	3.7	4	4
Manhattan 2	5.7	5.3	5.7	5	5	5	5.7	5.3
Linn	2	1.7	1	1.3	1.3	1	2.3	1.7
LSD (.05)	1.3	.9	.3	.6	1.2	1.1	.9	1.1
s.e.	.4	.6	.8	.7	1.4	1.3	.8	.6

●Scale used to report traits (if appropriate):1-9, 9= best quality, least disease, darkest green, finest texture

6. Breeder seed of CONFETTI 2 was first produced in 2007. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon. Generations of seed increase shall follow breeder seed as foundation and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Certified class production fields established from foundation seed will be limited to 4 years of seed production. Additional years of seed production may be approved by Novel AG, Inc.

7. Certified seed is anticipated to be available in July of 2010. PVP certification option has not been determined at this time.



Firecracker LS (MST; MVS-MST)

1. Variety name: Firecracker LS Kind: Tall fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): MST; MVS- MST
 Date submitted: January 11, 2009

2. Firecracker LS tall fescue (*Festuca arundinacea* Schreb.) is a medium low-growing, dark green, medium-fine-leaved, turf-type tall fescue selected from the maternal progenies of 16 clones. MST was selected for high crown density, dark-green color, semi-dwarf growth habit, and medium maturity and improved brown patch resistance (caused by the fungus *Rhizoctonia solani* Kuhn). Approximately 90% of the parental germplasm in Firecracker LS contain the *Neotyphodium* endophyte. Forty-seven percent of the maternal germplasm trace to several plants related to Apache tall fescue. Twenty-one percent trace to several plants related to Gazelle tall fescue. Sixteen percent trace to a few plants selected from the University of GA State Hospital in 1977. Another sixteen percent trace to a few plants collected from Atlanta GA near GA tech in 1977. Breeder seed of Firecracker LS (MST) Tall fescue was declared in July of 2006.

3. Firecracker LS was tested for turf use in New Jersey and Texas. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Flag Leaf Length(cm)	
	St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2007	2008	2007	2008	2007	2008
Traits						
Firecracker	May 14	May 16	92.1	93.8	11.5	11.1
Bonsai	May 20	May 24	78.1	85.9	12.5	13.0
Silverado	May 17	May 23	83.5	89.7	12.9	12.5
Bravo	May 12	May 18	115.6	118.5	14.7	14.5
K-31	May 4	May 14	128.2	132.2	18.5	19.2
LSD (.05)	1.4 days	1.7 days	1.8	2.7	1.8	1.3
S.E.	.98	1.10	1.4	1.2	1.7	0.9

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

Variants to be expected and frequency: No off-type or variant plants have been observed. In any case any occurrence of off-type or variants should be rogued in the Breeder seed and Foundation seed generations

5. Turf Use	Turf Quality		Brown Patch		Genetic Color		Leaf Texture	
	WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG	
	2008 NJ2	2008 TX1	2007 KS2	2007 NJ2	2008 NJ2	2008 TX1	2008 NJ2	2008 TX1
Firecracker LS	6.2	6.3	7	4.7	6.7	7.7	7.7	7
Faith	7	6.3	7	6.3	7	7.7	8	6.7
Padre	4.7	5.7	7.3	6	4	7.7	3.7	6.3
Silverado	3.1	5.3	7.3	6	3	6.3	2	6
KY-31	1	4.1	8.7	5.3	1	4	1	4.3
LSD (.05)	.7	.7	1.5	1.4	1.8	1.1	1.6	.8
C.V.	8.4	7.8	13.2	15.3	17.9	9.3	18.6	7.5

•Scale used to report traits (if appropriate):1-9, 9= best quality, least disease, darkest green, finest texture

6. Breeder seed of Firecracker LS was first produced in 2006. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon. Generations of seed increase shall follow breeder seed as foundation and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Certified class production fields established from foundation seed will be limited to 4 years of seed production. Additional years of seed production may be approved by Novel AG, Inc.

7. Certified seed is anticipated to be available in July of 2010. PVP certification option has not been determined at this time.



Hemi (HP-1)

1. Variety name: Hemi Kind: Tall fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): HP-1; Hemi
 Date submitted: January 11, 2009

2. Hemi tall fescue (*Festuca arundinacea* Schreb.) is a medium low-growing, dark green, medium-fine-leaved, turf-type tall fescue selected from the maternal progenies of 13 plants. Hemi was selected for high crown density, dark-green color, semi-dwarf growth habit, and medium maturity and improved stem rust resistance. Twenty one percent of the maternal germplasm trace to three plants related to Catalyst tall fescue. Twenty eight percent trace to four plants related to Firecracker LS tall fescue. Thirty six percent trace to five plants selected from Talladega tall fescue. Another fifteen percent trace to plants selected from Sheridan tall fescue. Breeder seed of Hemi (MST) Tall fescue was declared in July of 2006.

3. Hemi was tested for turf use in New Jersey and Texas. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Flag Leaf Length(cm)	
	St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2007	2008	2007	2008	2007	2008
Hemi	May 15	May 16	95.7	83.6	12.2	15.7
Bonsai	May 20	May 24	78.1	85.9	12.5	13.0
Silverado	May 17	May 23	83.5	89.7	12.9	12.5
Bravo	May 12	May 18	115.6	118.5	14.7	14.5
K-31	May 4	May 14	128.2	132.2	18.5	19.2
LSD (.05)	1.4 days	1.7 days	1.8	2.7	1.8	1.3
S.E.	.98	1.10	1.4	1.2	1.7	.9

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

Variants to be expected and frequency: No off-type or variant plants have been observed. In any case any occurrence of off-type or variants should be rogued in the Breeder seed and Foundation seed generations

5. Turf Use	Turf Quality		Brown Patch		Genetic Color		Leaf Texture	
	WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG	
	2008 NJ2	2008 TX1	2007 KS2	2007 NJ2	2008 NJ2	2008 TX1	2008 NJ2	2008 TX1
Hemi	6.1	5.4	7.7	5.7	8.7	8.3	7.7	6.3
Faith	7	6.3	7	6.3	7	7.7	8	6.7
Padre	4.7	5.7	7.3	6	4	7.7	3.7	6.3
Silverado	3.1	5.3	7.3	6	3	6.3	2	6
KY-31	1	4.1	8.7	5.3	1	4	1	4.3
LSD (.05)	.7	.7	1.5	1.4	1.8	1.1	1.6	.8
C.V.	8.4	7.8	13.2	15.3	17.9	9.3	18.6	7.5

●Scale used to report traits (if appropriate):1-9, 9= best quality, least disease, darkest green, finest texture

6. Breeder seed of Hemi was first produced in 2006. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon. Generations of seed increase shall follow breeder seed as foundation and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Certified class production fields established from foundation seed will be limited to 4 years of seed production. Additional years of seed production may be approved by Novel AG, Inc.

7. Certified seed is anticipated to be available in July of 2010. PVP certification option has not been determined at this time.



Titanium LS (BB-1)

1. Variety name: Titanium LS Kind: Tall fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): BB1; MVS- BB-1
 Date submitted: January 11, 2009

2. Titanium LS tall fescue is a medium low-growing, dark green, medium-fine-leaved, turf-type tall fescue selected from the maternal progenies of 28 parents. Thirty-two percent trace to a few plants related to Apache tall fescue. Twenty-one percent of the maternal germplasm trace to a few plants selected from the University of GA State Hospital in 1977. Eleven percent trace to a tall fescue clone with crown rust resistance identified in 1988. Another 11 % trace to progeny selected from an experimental selection that never became a commercial cultivar. Another 11 % trace to a few plants selected from a farm in North Carolina in 1975. Another 11% trace to a plant collected from Mini Mustang. Three percent trace to plants selected from the Atlanta, Georgia, near Georgia Tech in 1977.

Breeder seed of Titanium LS (BB-1) Tall fescue was declared in July of 2006.

3. Titanium LS was tested for turf use in New Jersey and Texas. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date St. Paul, OR		Plant Height (cm) St. Paul, OR		Flag Leaf Length(cm) St. Paul, OR	
	2007	2008	2007	2008	2007	2008
	Titanium LS	May 12	May 16	97.9	90.4	10.0
Bonsai	May 20	May 24	78.1	85.9	12.5	13.0
Silverado	May 17	May 23	83.5	89.7	12.9	12.5
Bravo	May 12	May 18	115.6	118.5	14.7	14.5
K-31	May 4	May 14	128.2	132.2	18.5	19.2
LSD (.05)	1.4 days	1.7 days	1.8	2.7	1.8	1.3
S.E.	.98	1.10	1.4	1.2	1.7	.9

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

Variants to be expected and frequency: No off-type or variant plants have been observed. In any case any occurrence of off-type or variants should be rogued in the Breeder seed and Foundation seed generations

5. Turf Use	Turf Quality		Brown Patch		Genetic Color		Leaf Texture	
	WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG		WWW.NTEP.ORG	
	2008 NJ2	2008 TX1	2007 KS2	2007 NJ2	2008 NJ2	2008 TX1	2008 NJ2	2008 TX1
Titanium LS	5.4	6.1	7.7	6.3	5.7	7.3	6	6.3
Faith	7	6.3	7	6.3	7	7.7	8	6.7
Padre	4.7	5.7	7.3	6	4	7.7	3.7	6.3
Silverado	3.1	5.3	7.3	6	3	6.3	2	6
KY-31	1	4.1	8.7	5.3	1	4	1	4.3
LSD (.05)	.7	.7	1.5	1.4	1.8	1.1	1.6	.8
C.V.	8.4	7.8	13.2	15.3	17.9	9.3	18.6	7.5

●Scale used to report traits (if appropriate):1-9, 9= best quality, least disease, darkest green, finest texture

6. Breeder seed of Titanium LS was first produced in 2006. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon. Generations of seed increase shall follow breeder seed as foundation and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Certified class production fields established from foundation seed will be limited to 4 years of seed production. Additional years of seed production may be approved by Novel AG, Inc.

7. Certified seed is anticipated to be available in July of 2010. PVP certification option has not been determined at this time.



Tucker (OG-4)

1. Variety name: Tucker Kind: Orchardgrass
 Genus: Dactylis Species: glomerata
 Experimental designation (s): OG-4
 Date submitted: December 23, 2009

2. Tucker orchardgrass is derived from a five-clone polycross that includes Potomac (20%), Paiute (20%), Hallmark (20%), Tekapo (20%), and Boone (20%). After initial crossing of three propagules from each variety, four cycles of recurrent phenotypic selection was performed concentrating on plant vigor, high vegetative tillering, freedom from foliar diseases, early maturity similar to Potomac, plant uniformity, and potential seed yield. The first breeder seed was produced in 2004.

3. Tucker orchardgrass was trialed in Oregon. It is adapted to climatic conditions in that region and will be used primarily for forage (hay, silage, green chop, pasture) production.

4. Growth & Morphology Traits	50% heading, Julian Lebanon, OR		Plant height, cm Lebanon, OR		Inflorescence length, cm Lebanon, OR	
	2007	2008	2007	2008	2007	2008
	Tucker	133.2	134.2	141.6	145.8	24.7
Potomac	131.9	132	138.4	142.1	28.8	29.5
Paiute	139.4	139.1	123.4	123.6	16.8	16.8
Hallmark	136.4	136.1	134.1	131.4	26.1	26.5
LSD (.05)	3.4	1.1	6.2	5.6	3.9	3.1
cv. (plots)	.9	4.1	1.7	1.5	5.8	4.5

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

Variants to be expected and frequency: Less than 1% exhibiting finer, greener leaves and lower tiller number.

5. Turf 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	2009	2008	2009
Tucker	3.8	3.5	3	3.5	7.5	7.5	5.5	7
Potomac	3.4	2.9	2.8	3.2	7	6	6	5.5
Paiute	2.3	2.5	2.2	2.5	6	6.5	4.5	5
Hallmark	3.2	3.1	2.8	3.5	6	7	5.5	7
LSD (.05)	.4	.4	.9	.4	.8	1.4	1.6	.8
cv. (plots)	4.8	4.2	11.9	4.7	4.6	7.4	10.9	5

6. Sufficient breeder seed of Tucker is maintained by Oregro Seeds, Inc. of Albany, OR. Generations and life limitations are as follows: Breeder – 2 years; Foundation – 2 years; Registered – 2 years; Certified – 10 years. Additional years may be added with approval of the breeder.

7. Certified seed of Tucker will be available in 2010. PVP will not be applied for.



Kentucky 32 (FTF-4, TF4, TF4)

1. Variety name: Kentucky 32 Kind: Tall fescue
 Genus: Festuca Species: arundinaceae
 Experimental designation (s): FTF-4, TF4, TF-4
 Date submitted: January 5, 2010

2. Kentucky 32 forage tall fescue is the result of top crossing Kentucky 31 maternal plants with plants from Orygun, Stargrazer, and Fawn forage tall fescues. Two cycles of recurrent phenotypic selection were performed after the initial topcross, with selection criteria including uniformity of plant type, size, and maturity, as well as number of reproductive tillers, plant height, leafiness, and freedom from stem rust.
3. Kentucky 32 tall fescue has been trialed in Mississippi and Oregon and is adapted to these regions where tall fescue is commonly used. Kentucky 32 was developed for forage production (hay, silage, pasture) and will be recommended for those uses.

4. Growth & Morphology	Plant height, cm		Panicle length cm		50% heading, Julian	
	Lebanon, OR		Lebanon, OR		Lebanon, OR	
	2006	2007	2006	2007	2006	2007
Traits						
Kentucky 32	141.1	149.2	27.9	29.3	123.2	127.1
Kentucky 31	135.1	143.4	29.4	28.2	125.2	129.3
Fawn	124.6	127.7	24.8	20.2	117.2	118.8
Orygun	126.6	129.1	24.7	25.4	118.9	122.1
LSD (.05)	6.3	2.1	.9	1.4	1	1
cv. (plots)	1.9	.6	1.3	2.2	.3	.3

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

Variants to be expected and frequency: Slight presence with darker leaves and smaller crowns.

5. Turf Use	Forage Yields (lbs./A)				Stand percentage			
	Starkville, MS		Newton, MS		Starkville, MS		Newton, MS	
	2005	2006	2005	2006	2005	2006	2005	2006
Forage								
Kentucky 32	7174	5802	7182	5173	93	84	94	93
GA5 MAXQ	8814	6995	7080	5454	97	94	97	93
Jessup MAXQ	8758	6683	6932	5322	97	97	99	98
Kentucky 31	7987	6215	7182	5494	92	90	96	96
LSD (.05)	1834	996	539	904	14	9	22	15
CV %	16.7	12.4	5.5	13.2	10.7	8.1	16.5	12

6. Breeder seed was designated in 2003 and adequate supplies are maintained by Oregro Seeds, Inc. of Albany, OR in long term storage. Generations and stand life are as follows: Breeder – 2 years; Foundation – 2 years; Registered – 2 years; Certified – 10 years.
7. First sale of certified seed will be in 2010. PVP will be applied for and the certification option will not be requested.



04-2 Lh

1. Variety name: _____ Kind: Intermediate ryegrass
 Genus: Lolium Species: hybridum
 Experimental designation (s): 04-2 Lh
 Date submitted: January 4, 2010

2. 04-2 Lh is an advanced generation synthetic variety of intermediate ryegrass. The variety originated from the interpollination of 10 parents at Pickseed USA, Inc. (PS), Albany, OR. Three parents were selected from *Racer*. Two parents were selected from *Headstart*. Five parents were selected from *Transist 2200*. Each parent of 04-2 Lh exhibited tall, erect growth habit and medium fine textured foliage of medium dark green color. The 10 parents also showed similar anthesis dates. Progeny resulting from the open pollination of the selected parents of 04-2 Lh were advanced to a syn 2 generation. That seed was designated as breeder seed, first produced in July 2005.

3. 04-2 Lh has been tested for turf quality and several component characteristics of turf quality in Albany, OR. It has shown adaptation to that climatic condition. It could be available for sale in climates representative to that locality.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height (cm) Albany, OR		Spike Length (cm) Albany, OR	
	Traits		2007	2008	2007	2008
	04-2 Lh	May 18	May 16	56.7	71.4	20.0
Transist	May 18	May 17	71.4	82.5	23.8	22.3
Transist 2200	May 18	May 17	73.7	82.0	23.9	23.0
Transeze	May 18	May 17	70.8	84.0	23.1	19.5
Gulf	May 7	May 12	89.6	108.3	27.4	28.7
LSD (.05)	2	2	5.4	9.5	2.1	3.6
SE	0.9	0.9	2.6	4.6	1.0	1.8

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		Foliage Texture		Stand Density	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	a)	b)	2006	2007	2006	2007	2006	2007
04-2 Lh	5.0	6.3	5.0	6.5	7.0	5.5	6.5	6.0
Transist	4.0	4.5	1.5	4.4	5.0	4.5	3.5	4.5
Transist 2400	4.0	5.7	5.0	5.9	5.5	5.0	6.5	6.0
Froghair	1.5	2.7	1.0	3.0	3.0	3.0	3.0	3.5
Gulf	2.0	2.4	1.5	2.9	3.0	3.0	2.5	4.5
Transeze	4.0	4.9	2.0	5.2	5.5	5.0	4.0	5.5
LSD (.05)	1.1	0.5	1.9	1.2	1.3	1.2	1.3	1.8
SE	0.6	0.2	0.9	0.6	0.6	0.6	0.6	0.8

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

6. A record sample of original breeder seed and any further breeder seed production will be maintained by PS. The breeder seed of 04-2 Lh was first produced in 2005 at the research facility of PS. A record sample of this seed is maintained by PS in cold, dry storage. Additional breeder seed will be produced as needed to reconstitute the variety, 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, Registered, and Certified class fields will be limited to two harvests.

7. Certified seed will first be offered for sale August 2010. A decision for filing for a P.V.P. application has not been made at this time.



TXR-2004-TF-EM

1. Variety name: _____ Kind: Annual ryegrass
 Genus: Lolium Species: multiflorum
 Experimental designation (s): TXR-2004-TF-EM
 Date submitted: December 30, 2009

2. TXR-2004-TF-EM is an advanced generation synthetic variety based upon 10 parents. Parental germplasm for the variety originated from an open pollinated cross at Pickseed USA, Inc. (PS), Albany, OR of selections from the cultivars *Axcella*, *Transist 2200*, *Racer*, *Transist 2400*, and *Transcend*. Progeny from the cross were evaluated for two generations at Texas AgriLife Research, Overton, Tx. Only progeny exhibiting very dark green foliage color of fine texture, good tolerance to crown rust, and awned spikelets were advanced. Progeny of ten superior plants were advanced two additional generations resulting in the first breeder seed production at PS in summer 2005.

3. TXR-2004-TF-EM has been tested for overseeding turf use in western Oregon and northeastern Texas. It has shown adaptation to those climatic conditions and will be marketed 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	
	2007	2008	2007	2008	2007	2008
TXR-2004-TF-EM	133	135	76.7	92.0	17.1	16.9
Axcella	130	134	84.5	103.9	18.0	21.2
Panterra	130	134	81.7	94.1	16.2	16.9
Gulf	127	132	89.6	108.3	17.4	21.5
LSD (.05)	2.0	2.0	5.4	9.5	1.4	2.9
S.E.	1.0	1.0	2.6	4.6	0.7	1.4

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	Turf Quality(1-9)		Genetic Color (1-9)		Transition to Bermudagrass(%)		Percent Stand	
	Overton, TX		Overton, TX		Overton, TX		Overton, TX	
	Jan'08	Jan'09	Jan'08	Feb'09	May'08	May'09	2007	2008
TXR-2004-TF-EM	5.7	6.7	6.7	6.0	57	35	85	94
Axcella	6.0	5.3	5.0	5.3	67	53	93	83
Panterra	6.3	6.7	6.0	5.7	77	47	80	94
Gulf	5.0	5.3	4.0	4.3	63	37	93	94
LSD (.05)	0.8	1.2	0.9	0.8	19.5	19	14	9
S.E.	0.4	0.6	0.5	0.4	9.7	9	7	4

●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 TXR-2004-TF-EM was first produced in 2005 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, Registered, and Certified class fields will be limited to only one harvest.

7. Certified seed is anticipated to be available in the summer of 2010. A decision for filing a P.V.P. application has not been made at this time.



06 B Lh

1. Variety name: _____ Kind: Intermediate ryegrass (4X)
 Genus: Lolium Species: hybridum
 Experimental designation (s): 06 B Lh
 Date submitted: January 7, 2010

2. 06 B Lh is an advanced generation synthetic variety of intermediate (tetraploid) ryegrass based upon 14 parents. Parents were selected for having good fall and early spring vigor, medium vegetative leaf texture, and good seed production potential. The original cross of the 14 parents was initiated at Pickseed USA, Inc. (PS), Albany, OR, May 2006. Progeny resulting from the open pollination of the selected parents of 06 B Lh were advanced to a syn 2 generation. That seed was designated as breeder seed, first produced in July 2007.
3. 06 B Lh has been tested for regrowth potential and frost tolerance (characteristics important for revegetation projects) in Albany, OR. One thousand seed weight of 06 B Lh has been shown to be greater than tetraploid perennial ryegrass varieties, e.g. Molisto, and other tetraploid intermediate ryegrasses, e.g. BestFor, when seed was produced for two seasons at Albany, OR. The variety has shown adaptation to that climatic condition. It could be available for sale in climates representative to that locality.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height (cm) Albany, OR		Spike Length (cm) Albany, OR	
	2008	2009	2008	2009	2008	2009
06 B Lh	May 19	May 16	95.4	115.8	27.7	32.1
Max	May 19	May 16	97.5	120.1	27.6	34.1
Aubade	May 18	May 15	92.0	119.2	28.2	35.8
Amazon	May 19	May 17	70.6	78.7	22.3	27.2
LSD (.05)	2 days	2 days	8.3	6.5	3.1	2.7
SE	1	1	3.8	3.1	1.4	1.3

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

Variants to be expected and frequency: Taller, earlier maturing, finer textured at <1%

5. Primary Use: Revegetation	Regrowth from Geese Grazing				Regrowth from Mowing		Frost Damage	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	Jan'08	Mar'08	Jan'09	Mar'09	2008	2009	2008	2009
06 B Lh	3.9	3.1	3.1	2.9	4.0	3.3	3.1	2.7
Max	4.2	2.8	3.3	3.2	3.2	3.8	2.7	2.7
Aubade	3.7	2.1	3.4	3.4	2.5	2.9	3.1	2.9
Amazon	2.7	2.5	1.4	1.2	4.0	1.7	2.5	2.2
LSD (.05)	0.8	0.8	0.4	0.4	1.0	0.5	0.8	0.4
SE	0.4	0.4	0.2	0.2	0.5	0.3	0.4	0.2

•Scale used to report traits (if appropriate): 1-5 subjective scale; 1 = least regrowth, most frost damage; 5 = most regrowth, least frost damage.

6. Breeder seed of 06 B Lh was first produced in 2007 by PS in Albany, OR. 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 will first be offered for sale August 2010. A decision for filing for a P.V.P. application has not been made at this time.



Giant (PST-ORAF)

1. Variety name: Giant Kind: Redtop bentgrass
 Genus: Agrostis Species: gigantea
 Experimental designation (s): PST-ORAF
 Date submitted: December 2009

2. Giant originated as a collection from the GRIN Collection (P.I. No. 440299) from Kazakhstan, Central Asia. Specifically the locality of the collection was along a roadside 8 Km E of Trudovoi Pajari Farm Village, about 40 Km NE of Dzhambul. P.I. No. 440299 was mistakenly identified as a *Deschampsia caespitosa* species by GRIN and was acquired for our breeding program in 2000 with other *Deschampsia* P.I. collections. It turned out to be an interesting redtop bentgrass instead of a *Deschampsia*. Subsequently, seven plants out of this collection were moved into an isolated crossing block the summer of 2001 and called PST-ORAF. Seed from these seven plants was harvested, threshed and seedlings were planted the fall of 2001 in a spaced plant nursery containing 945 plants for a cycle of mass selection. During the spring and summer of 2002 this nursery was rogued to uniformity prior to pollinization. Plants were removed for leaf spot and crown rust susceptibility. Also, any fine leaved, smaller sized and late maturing plants were removed. Approximately 700 plants with good overall disease resistance, a medium-early maturity, an upright aggressive growth habit and wider, soft leaves were selected and harvested as the breeder seed of Giant in the July of 2002.

3. Giant was tested for re-vegetation use in western Oregon; eastern New Jersey; Missaukee and Ingham County, Michigan; and eastern South Dakota. 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		Plant Height		Flag Leaf Length	
	2007	2008	2007	2008	2007	2008
Giant A. gigantea	173	164	85.7	105.5	11.9	15
Reton A. gigantea	153	162	84.2	108.6	9.7	9.5
PennLinks A. stolonifera	162	160	33.9	50.5	3.2	4.8
Crystal BlueLinks A. stolonifera	156	156	28.6	46.6	3.1	3.8
LSD (.05)	15 days	5 days	2.6	6.2	0.8	2.9
CV%	6.1	2.0	14.6	25.6	34.9	29.5

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

5. Primary Use Re-vegetation	Foliage Production Oregon			Winter Kill	
	2003 trial June 2004	2008 trial June 2009		Missaukee Co. Mi	Ingham Co. Mi
Giant	12.0	12.9	Giant	1.0	1.0
Elsie Dactylis glomerata L.	9.6	13.8	Putter Agrostis stolonifera	1.0	1.0
Cowgirl Festuca arundinacea	10.7	16.8	Sierra Lolium perenne	8.8	6.5
Maximize Festuca arundinacea	11.7	16.9	CNS26 Festuca arundinacea	3.3	1.0
LSD (.05)	3.2	3.5		1.8	1.0
CV%	13.2	13.4		43	22

•Scale used to report traits: Foliage production: Tons/Acre in wet weight; Winter Kill: 1-10: 10=91-100% of stand damaged

6. Pure-Seed Testing, Inc. maintains Breeder seed in Oregon and will regenerate as necessary. Seed production of Giant is limited to three generations of increase from Breeder seed: Foundation, Registered and Certified. Foundation stands may only be planted from Breeder seed. Foundation stands may only be planted from breeder seed. Foundation class production fields established from breeder seed can be harvested for Foundation seed for a maximum of five years followed by Registered class seed for six years. Certified class production fields established from Foundation seed will be limited to six years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

7. Certified seed is anticipated to be available in the spring of 2010. No PVP will be sought. Variety will be entered into the Certification program.



Tahoe II (RAD-TF36, TF36)

1. Variety name: Tahoe II Kind: Tall Fescue
 Genus: Festuca Species: arundinacea
 Experimental designation(s): RAD-TF36, TF36
 Date submitted: January 11, 2010

2. Tahoe II was developed by Radix Research, Inc. beginning with individual plant selections from a clonal evaluation nursery located at the Radix Research Station near Peoria, Oregon. Tahoe II originates from the varieties Tahoe (40%), Insignia (20%), Sitka (20%) and Montana (6.7%) as well as naturalized selections collected in January 2002 from the Lake Redding Golf Course in Redding, CA (13.3%). Plants were selected on the basis of aggressive tillering, 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 form an isolated crossing block that produced the first breeder seed in 2006.

3. Tahoe II 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 Traits	Total Plant Height (cm) Peoria, Oregon		Panicle Length (cm) Peoria, Oregon		Heading Date Peoria, Oregon	
	2008	2009	2008	2009	2008	2009
Tahoe II	126.1	131.1	26.9	30.0	May 15	May 11
Shortstop	126.7	133.7	26.8	26.6	May 13	May 10
Crewcut	123.9	128.3	29.9	31.2	May 12	May 10
LSD (.05)	4.0	3.8	2.4	2.1	2.2 days	2.0 days
CV %	10.8	10.6	15.0	14.6	17.7	18.1

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

Variants to be expected and frequency: Approximately 2% of the population may exhibit a total plant height 8%-12% taller than population average.

5. Turf Use	Turf Quality (1-9)		Genetic Color (1-9)		Leaf Texture (1-9)		Turf Density (1-9)	
	Peoria, Oregon		Peoria, Oregon		Peoria, Oregon		Peoria, Oregon	
a)	2008	2009	2008	2009	2008	2009	2008	2009
Tahoe II	6.1	6.2	6.3	6.0	5.8	6.0	5.8	6.1
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 Tahoe II 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. Columbia Seeds, LLC has been licensed to produce and sell Tahoe II.

7. Certified seed is anticipated to be available in the spring of 2010. PVP certification option has not been determined at this time.



Talon

1. Variety name: Talon Kind: Canada bluegrass
 Genus: Poa Species: compressa
 Experimental designation (s): CAS-PMCI, PMCI
 Date submitted: January 11, 2010

2. Talon was developed at Cascade International Seed Company's breeding facility located in Aumsville, Oregon. Talon originated as a single, apomictic plant selected from a controlled pollination hybridization. The maternal parent was a highly sexual line designated SPC3 and was a naturalized selection collected near Spokane, WA in 1991. Paternal sources were naturalized selections collected in 1991 near Spokane, WA, Enterprise, OR, and East Lansing, MI. Talon was identified as being unique from its maternal parent by its apomixis, taller and more erect growth habit, darker color and thicker stems. The first breeder seed was produced in 1995.
3. Talon has exhibited good turf performance and adaptation under low maintenance in western Oregon. It will be made available for sale in climates represented by this locale.

4. Growth & Morphology	Total Plant Height Aumsville, Oregon		Panicle Length Aumsville, Oregon		Heading Date Aumsville, Oregon	
	1997	1998	1997	1998	1997	1998
Talon	46.7	47.5	8.3	10.1	April 24	April 29
Cannon	48.4	50.8	9.3	12.3	April 22	April 28
Reubens	43.0	46.5	6.5	9.2	April 18	April 25
LSD (.05)	4.9	4.4	1.8	1.6	2.7 Days	1.9 Days
CV%	10.7	10.2	12.1	11.6	12.8	12.5

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

Variants to be expected and frequency: Talon has averaged 96.3 Apomictic. 2% of variants are miniature plants, 1% are lighter green and produce few seed heads. 0.7 are taller.

5. Turf Use	Turf Quality		Genetic Color		Leaf Texture		Turf Density	
	Aumsville, Oregon		Aumsville, Oregon		Aumsville, Oregon		Aumsville, Oregon	
	1997	1998	1997	1998	1997	1998	1997	1998
Talon	5.0	5.4	6.3	6.0	5.5	5.4	5.6	5.5
Cannon	4.6	4.7	5.8	5.8	5.7	5.6	5.2	5.0
Reubens	4.7	4.9	5.9	6.0	5.6	5.6	5.4	5.2
LSD (.05)	0.7	0.6	0.8	0.7	0.6	0.5	0.8	0.7
CV%	10.3	9.7	11.2	10.9	10.4	9.6	12.3	11.7

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

6. Breeder seed of Talon was produced in 1995 and 1996. All breeding work was carried out by Steven J. Witten and Chad F. Miebach. Talon has been sold to L&H Seeds of Connell, WA. A portion of breeder seed has been retained in cold storage; any further breeder seed production will be overseen by L&H Seeds. Foundation, Registered and Certified classes of seed production will be maintained by L&H Seeds. Seed classes recognized are Foundation, Registered, and Certified with stand lengths 4, 4, and 7 years, respectively.

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



Faith

1. Variety name: Faith Kind: Tall Fescue
 Genus: Festuca Species: arundinacea
 Experimental designation (s): WA or F06-WA
 Date submitted: January 29, 2010

2. Faith (WA) tall fescue (*Festuca arundinacea* Scrib) is a turf type tall fescue selected from maternal and paternal germplasm selected and developed at the Rutgers Plant Science Research and Extension Farm at Adelphia, New Jersey. Faith was selected for finer leaves, a lower growth profile, darker color, greater density, and increased persistence under close mowing.
3. Faith (WA) tall fescue (*Festuca arundinacea* Schreb) will be solely used for lawn and commercial turf. The variety is adapted to Oregon, North Carolina, Georgia, Nebraska, Pennsylvania and other cool season and transition growing regions of the United States.

4. Growth & Morphology	Heading date-Julian Oregon		Plant Height- cm Oregon	
	2007	2008	2007	2008
Faith (WA)	152.5	133.1	55.7	90.4
Mini Mustang	154.5	137.8	60.3	99.1
Bonanza	151.6	139.5	69.7	111.0
Bonsai	159.8	138.1	54.4	92.9
Crewcut	155.1	138.0	67.2	102.2
Rebell II	154.0	132.3	72.5	112.5
Rebel Jr	153.6	138.0	61.1	99.4
Silverado	156.6	136.9	55.7	95.9
Shortstop	154.7	138.3	63.0	101.8
LSD (.05)	4.49	4.46	6.47	6.83
C.V.-%	1.74	1.95	6.57	4.33
Data collected from:	Spaced single plant		X	Plants in rows/solid seeding

Variants to be expected and frequency: Any aberrant plants observed in a Faith tall fescue field have been similar in appearance as taller plants with an occurrence of less than 25 or less.

5. Turf Use	Turf Quality		Genetic Color		Texture	
	North Carolina		Nebraska		Pennsylvania	
	2007	2008	2007	2008	2007	
Faith (WA)	7.7	6.7	7.7	7.7	8.3	
Falcon IV	6.8	6.3	6.7	6.7	6.3	
Magellan	6.4	6.3	6.1	7.3	6.7	
Rebel IV	7.4	6.6	7.7	7.0	6.3	
Silverado	5.6	5.0	6.3	6.3	5.0	
LSD (.05)	1.2	1.1	1.5	1.4	0.8	
C.V.-%	10.7	11.0	13.0	11.7	7.6	

•Scale used to report traits (if appropriate): Turf quality, where 9= ideal turf; genetic color, where 9= dark green; texture, where 9= very fine texture; and fall color, where, 9= ideal color.

6. The Scotts Company produced seed from the parent clones of Faith tall fescue at the Gervais Oregon field station. Seed of these clones were blended and used as breeder seed to establish the Foundation seed field. Seed from the parent clones are stored in climate controlled storage at Gervais and when breeder seed is needed another blend is put together using the same percentage of each clone. This clonal seed should last the life of the variety. The Scotts Company maintains breeder see in Oregon and will regenerate as necessary. Seed production of Faith is limited to three generations of increase from breeder seed: one each from Foundation, Registered, and Certified. Foundation stands may only be planted from breeder seed. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of four years followed by Registered class for four years. Certified class production field is established from Foundation seed 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. Breeder seed was first produced and declared in 2006.

7. Faith tall fescue will be first available for certification by official seed certifying agencies in the summer of 2010. Faith will not be submitted for plant variety protection



PSG 4PCS

1. Variety name: _____ Kind: Perennial ryegrass
 Genus: Lolium Species: perenne
 Experimental designation (s): PSG 4TPCS
 Date submitted: December 30, 2009

2. PSG 4TPCS is an advanced generation synthetic variety of perennial ryegrass. The variety originated from selections of SR 4220, SR 4420, and SR 4500. Parents for PSG 4TPCS were collected from a mature stand of golf course turf. Progeny seed from 21 half-sib families contributed to PSG 4TPCS. Progeny from the 21 families were selected for demonstrating high seed yield potential, dark green foliage color, and an overall tolerance to general seed production diseases. Breeder seed of PSG 4TPCS was first produced in 2007 at Pickseed USA, Inc. (PS), Albany, OR.

3. PSG 4TPCS has been tested for turf quality and several component characteristics of turf quality. It has demonstrated good turf quality in Blacksburg, VA and Urbana, IL. It could be available for sale in climates representative to those locations.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height Albany, OR		Spike Length Albany, OR	
	2008	2009	2008	2009	2008	2009
PSG 4TPCS	May 24	May 20	59.0	65.6	32.9	27.3
Fiesta 4	May 22	May 18	51.3	61.5	29.9	22.4
Pinnacle	May 19	May 11	66.9	67.1	39.5	27.0
Elka	June 5	May 30	61.5	53.3	34.8	21.3
Linn	May 9	April 30	69.9	71.2	41.3	31.6
LSD (.05)	2 days	3 days	3.9	5.3	2.7	2.7
S.E.	1	1	1.9	2.6	1.3	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	B	A	C	B	C	C	D
PSG 4TPCS	5.1	5.6	6.0	5.0	5.6	4.5	2.3	3.3
Manhattan II	5.1	5.2	5.1	3.3	5.5	3.7	2.7	3.7
Cutter	5.1	5.4	5.3	4.2	5.5	3.6	3.3	4.0
Jet	5.3	6.1	5.8	5.4	6.1	4.7	3.3	4.7
Penguin 2	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. A record sample of original breeder seed and any further breeder seed production will be maintained by PS. The breeder seed of PSG 4TPCS was first produced in 2007. A record sample of this seed is maintained by PS in cold, dry storage. Additional breeder seed will be produced as needed to reconstitute the variety, 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 production.

7. Certified seed will first be offered for sale August 2010. A decision for filing a P.V.P. application has not been made at this time.



SR 7150 (SRX 7MODD)

1. Variety name: SR 7150 Kind: colonial bentgrass
 Genus: Agrostis Species: capillaris
 Experimental designation (s): SRX 7MODD
 Date submitted: January 11, 2010

2. SR 7150 is a composite of open pollinated progeny from four parents. The parents of SR 7150 were selected based upon their brown patch tolerance, dark foliage color, and good seed yield potential. The final selection of parental germplasm, and breeder seed production was done in the summer of 1998 at Seed Research of Oregon, Corvallis, OR.

3. SR 7150 has been tested for turf quality and several components of turf quality as a 2003 entry in the National Turfgrass Evaluation Program (NTEP). The variety has shown adaptation, particularly, at NTEP testing sites in central MA, northeast NJ, central PA, central IL, eastern NE, and southwest VA. The variety could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date Corvallis, OR		Plant Height (cm) Corvallis, OR		Panicle Length(cm) Corvallis, OR	
	1999	2000	1999	2000	1999	2000
Traits						
SR 7150	June 11	June 4	29.5	43.1	11.0	12.8
SR 7100	June 10	June 6	36.0	40.8	12.6	11.9
Bardot	June 11	June 7	32.9	41.2	12.3	12.2
Seaside	June 11	June 12	54.3	52.6	10.9	11.6
LSD (.05)	2 days	3 days	5.1	8.3	1.4	1.4
SE	1.0	1.0	2.3	3.7	0.6	0.6

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		Spring Greenup		Summer Density	
	2004		2004		2004		2004	
	A	B	A	B	C	D	C	D
a)								
b)								
SR 7150	5.1	6.8	7.0	7.3	7.0	8.0	6.7	8.3
Tiger II	5.4	7.0	6.7	6.0	6.0	8.3	6.3	8.0
Revere	5.5	6.5	7.0	6.7	6.0	8.3	7.0	7.7
Bardot	5.3	6.4	6.7	5.3	6.7	6.7	5.7	8.3
Seaside	3.0	3.6	4.3	2.3	4.0	4.3	5.0	8.3
LSD (.05)	0.7	0.5	0.7	0.9	1.2	1.1	0.9	2.2
CV%	7.8	4.9	7.1	8.9	15.0	9.5	8.1	16.9

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

Locations: A: Amherst, MA B: University Park, PA C: Urbana, IL D: Blacksburg, VA

6. A record sample of original breeder seed and any further breeder seed production will be maintained by Pickseed USA, Inc. (PS). The breeder seed of **SR 7150** was first produced in 1998. A record sample of this seed is maintained by PS in cold, dry storage. Additional breeder seed will be produced as needed to reconstitute the variety, 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 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 2010. A decision for filing for a P.V.P. application has not been made at this time.

