

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



**ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES**

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NATIONAL GRASS  
VARIETY REVIEW BOARD

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES  
(MARCH 2009)

The Association of Official Seed Certifying Agencies (AOSCA), National Grass Variety Review Board reviewed the following varieties on March 5, 2009 in Phoenix, 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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Respectively submitted,

Neal Foster, Chair  
National Grass Variety Review Board

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# Maximus

1. Variety name: Maximus Kind: Annual Ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): BB-MEX-1  
 Date submitted: January 12, 2009

2. Maximus annual ryegrass is developed by Barenbrug USA from germplasm collected in west-central Mexico. This germplasm was selected for 2 cycles for upright growth, freedom from stem rust and seed yield. The breeder seed was first produced in 2001.
3. Maximus is tested for forage production in Alabama and Mississippi. It is adapted to these southeastern states for grazing and silage production.

4. Growth & Morphology	HeadingDate (Julian)		First Subtending Leaf Width (mm)		Panicle Length (cm)	
	Year 2003	Year 2005	Year 2003	Year 2005	Year 2003	Year 2005
Maximus	133.9	136.3	8.5	10.2	32.7	31.9
Gulf	130.9	135.2	6.5	5.4	29.1	24.5
Hercules	137.1	141.9	10.4	12.7	33.8	37.3
Jumbo	134.7	138.3	9.4	9.9	35.3	30.3
LSD (.05)	1.3	2.6	1.6	1.8	3.5	4.4
Variance	0.9	0.5	9.4	9.2	5.3	7.0

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

5. Forage Use	Forage Yields (lb/A)				Maturity (percent seed heads)			
	Starkville, MS		Newton, MS		Newton, MS		Starkville, MS	
	06-07	07-08	06-07	07-08	4/27/05	4/20/06	5/2/05	4/24/06
Maximus	7875	12443	7129	9839	8	17	20	42
Hercules	6678	12423	7157	9271				
Marshall	8114	11289	8114	10737	3	13	10	22
Jumbo	7022	10974	7582	9237	5	8	5	29
TAM 90	6454	10719	7282	9625				
LSD (.05)	748	1230	1183	893	5	12.7	19	24
Variance	7.5	7.7	10	5.4	50	-	69	37

6. Barenbrug USA will maintain the seed stock of MAXIMUS annual ryegrass. This variety is limited one generation of foundation, and two for registered, and two for certified seed class. Stand limitations are 1 year for foundation, 2 years for registered, and 3 years for certified. Foundation and Registered seed fields may be harvested for additional 1 year for certified seed production.
7. Certified seed of Maximus is anticipated in fall of 2010. PVP will not be applied.



## B-6.0756

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-6.0756  
 Date submitted: January 2009

2. In Fall 2004, seedlings from 67 germplasm populations were exposed to salinity stress in a greenhouse using a selection process with salinity amended soil. In Fall 2005, approximately 250 plants from the 67 populations that survived the salinity stress were planted in a field nursery near Lebanon, OR. In Spring 2006, prior to pollination, approximately 20% of the plants were rogued from the nursery for lack of stem rust (caused by *Puccinia graminis* subsp. *graminicola*) resistance or excessively late heading. The seed from the remainder of the plants was harvested in summer 2006 and bulked. Breeder seed of B-6.0756 was designated in 2006.

3. B-6.0756 was tested for turf in Arizona and Mississippi and shown to be adapted in these areas.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Spike Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2007	2008	2007	2008	2007	2008
B-6.0756	133	143	46	57	12.5	14.7
Linn	114	133	74	81	20.2	18.3
Palmer III	134	144	55	65	14.9	16.3
Pavilion	140	146	56	59	13.1	16.6
LSD (.05)	3.1	2.4	7.8	5.8	1.9	1.6
C.V. - %	1.4	1.0	9.1	5.8	8.3	6.3

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		Cover (%)		Seedling Vigor (1-9)	
	2006-07		2006-07		2006-07		2006-07	
	AZ	Miss.	AZ	Miss.	AZ	Miss.	AZ	Miss.
B-6.0756	6.8	6.5	8.0	6.0	77.5	85.3	3.5	6.7
Americus	6.4	6.7	7.0	7.0	80	88.7	4	7
Ignite	5.9	6.7	6.3	7.0	82.5	89.7	3.75	7
League Master	6.1	6.7	6.5	7.0	100	88.7	4	7
Pavilion	6.5	6.8	7.8	7.0	62.5	91.7	3.5	7.3
LSD (.05)	0.8	0.3	1.2	0.4	20.5	7.4	0.7	0.6
Variance=range	3.1	1.4	6.2	2.3	82.5	16.6	4.0	2.0

●Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, highest amount of vigor, darkest green color.

6. Breeder seed was first produced in 2006. A supply of B-6.0756 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-6.1091

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-6.1091  
 Date submitted: January 2009

2. In Fall 2004, seedlings from 21 germplasm populations were exposed to salinity or moisture stress. The populations were grown in a greenhouse using a selection process with salinity amended soil or a soil media that forced root competition for moisture. In Fall 2005, approximately 96 plants from each of the 21 populations were planted in a field nursery near Lebanon, OR. In Spring 2006, prior to pollination, approximately 20% of the plants were rogued from the nursery for lack of stem rust (caused by *Puccinia graminis* subsp. *graminicola*) resistance, yellow leaf color, or excessively late heading. The seed from the remainder of the plants was harvested in summer 2006 and bulked. Breeder seed of B-6.1091 was designated in 2006.

3. B-6.1091 was tested for turf in Virginia and shown to be adapted in this area.

4. Growth & Morphology	Heading Date (Julian) Lebanon, Oregon		Plant Height (cm) Lebanon, Oregon		Spike Length (cm) Lebanon, Oregon	
	2007	2008	2007	2008	2007	2008
Traits						
B-6.1091	135	144	55	61	13.9	15.3
Linn	114	133	74	81	20.2	18.3
Palmer III	134	144	55	65	14.9	16.3
Pavilion	140	146	56	59	13.1	16.6
LSD (.05)	3.1	2.4	7.8	5.8	1.9	1.6
C.V. - %	1.4	1.0	9.1	5.8	8.3	6.3

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		<i>Greenup (1-9)</i>		Drought tolerance (1-9)	
	Virginia		Virginia		Virginia		Virginia	
	2007	2008	2007	2008	2007	2008	2007	2008
a)								
b)								
B-6.1091	4.7	3.3	5.8	5.3	4	6.3	3.2	3.3
Cruiser	4	4.3	4.6	4.6	6	5	4.7	2.3
Palmer III	3.6	3.5	4.1	4.5	5	5	3.2	3.3
Stallion Supreme	2.6	3.8	2.6	3.7	6	4	5.2	2.7
Roadster	4.8	4	6.1	6	3.7	6	2.5	3.7
LSD (.05)	1.2	0.7	1.1	0.7	2	1.4	1.2	1.6
C.V. - %	31.6	24.9	20.6	17.5	29.4	14.7	30.8	31.5

●Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, highest amount of greenup, darkest green color and best drought tolerance.

6. Breeder seed was first produced in 2006. A supply of B-6.1091 breeder seed is maintained in cold storage as seed by Blue Moon Farm, 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-6.1096

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-6.1096  
 Date submitted: January 2009

2. B-6.1096 is a turf type perennial ryegrass developed through a combination of breeding and selection using maternal lines and individual plant selections screened through greenhouse and field trials for moisture and salinity stress resistance. Six maternal lines (5.0910, 5.1224, 5.0908, 5.1219, 5.1012, and 5.0909) developed from crosses among Seville, Rodeo II, Mach I, Caravelle, Metropolitan, Drifter, Saturn, Americus, Indy, Casper, Palmer II, Prelude II, and Sunkissed crossed through various cycles of selection and recombinations constitute the basis of B-6.1096. Breeder seed was produced in 2006.

3. B-6.1096 was tested for turf in Virginia and shown to be adapted in this area.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Spike Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2007	2008	2007	2008	2007	2008
Traits						
B-6.1096	129	142	47	63	12.8	15.2
Linn	114	133	74	81	20.2	18.3
Palmer III	134	144	55	65	14.9	16.3
Pavilion	140	146	56	59	13.1	16.6
LSD (.05)	3.1	2.4	7.8	5.8	1.9	1.6
C.V. - %	1.4	1.0	9.1	5.8	8.3	6.3

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		<i>Greenup (1-9)</i>		Drought tolerance (1-9)	
	Virginia		Virginia		Virginia		Virginia	
	2007	2008	2007	2008	2007	2008	2007	2008
a)								
b)								
B-6.1096	4.9	3.6	5.3	5.2	4.3	5.3	3	3
Cruiser	4	4.3	4.6	4.6	6	5	4.7	2.3
Palmer III	3.6	3.5	4.1	4.5	5	5	3.2	3.3
Stallion Supreme	2.6	3.8	2.6	3.7	6	4	5.2	2.7
Roadster	4.8	4	6.1	6	3.7	6	2.5	3.7
LSD (.05)	1.2	0.7	1.1	0.7	2	1.4	1.2	1.6
C.V. - %	31.6	24.9	20.6	17.5	29.4	14.7	30.8	31.5

• Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, highest amount of greenup, darkest green color and best drought tolerance.

6. Breeder seed was first produced in 2006. A supply of B-6.1096 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-6.1097

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-6.1097  
 Date submitted: January 2009

2. In Fall 2004, seedlings from germplasm populations tracing to Palmer III, Darkstar II, Sunkissed, Americus, Seville, a Polish collection, and Indy were exposed to salinity or moisture stress. The populations were grown in a greenhouse using a selection process with salinity amended soil or a soil media that forced root competition for moisture. Surviving plants were transplanted to field nurseries in early Spring 2005. In Fall 2005, a second cycle of salinity and moisture stress was completed. In Spring 2006, prior to pollination, approximately thirty percent of the plants were rogued from the nursery for lack of stem rust (caused by *Puccinia graminis* subsp. *graminicola*) resistance, yellow leaf color, or low tiller numbers. The seed from the remainder of the plants was harvested in summer 2006 and bulked. Breeder seed of B-6.1097 was designated in 2006.

3. B-6.1097 was tested for turf in Virginia and shown to be adapted in this area.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Spike Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2007	2008	2007	2008	2007	2008
B-6.1097	134	142	55	63	12.9	15.2
Linn	114	133	74	81	20.2	18.3
Palmer III	134	144	55	65	14.9	16.3
Darkstar II	132	142	54	62	13.8	14.9
LSD (.05)	3.1	2.4	7.8	5.8	1.9	1.6
C.V. - %	1.4	1.0	9.1	5.8	8.3	6.3

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		<i>Greenup (1-9)</i>		Drought tolerance (1-9)	
	Virginia		Virginia		Virginia		Virginia	
	2007	2008	2007	2008	2007	2008	2007	2008
B-6.1097	4.2	3.3	4.1	4.5	4	5.3	3	2.3
Cruiser	4	4.3	4.6	4.6	6	5	4.7	2.3
Palmer III	3.6	3.5	4.1	4.5	5	5	3.2	3.3
Stallion Supreme	2.6	3.8	2.6	3.7	6	4	5.2	2.7
Roadster	4.8	4	6.1	6	3.7	6	2.5	3.7
LSD (.05)	1.2	0.7	1.1	0.7	2	1.4	1.2	1.6
C.V. - %	31.6	24.9	20.6	17.5	29.4	14.7	30.8	31.5

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, highest amount of greenup, darkest green color and best drought tolerance.

6. Breeder seed was first produced in 2006. A supply of B-6.1097 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.



## Silver Hawk

1. Variety name: Silver Hawk Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): B-5.1342  
 Date submitted: January 2009

2. Silver Hawk is a turf type tall fescue developed through a combination of breeding using maternal lines and individual plant selections screened through greenhouse and field trials from the varieties Rebel II, Jaguar III, Rebel Sentry, Rebel Pro, nine undeveloped polycrosses from Willamette Seed, Rebel 2000, Rebel Jr., MCN, Tarheel, 5301, Kentucky 31, collected plants from a lawn near Little Rock, AK, and GOR4D. In 2002, 768 plants selected for drought tolerance were put in field nurseries near Lebanon, OR. Four maternal lines were pollinated by 100 paternal plants in 2003. In 2004, 144 plants of four maternal lines were planted, with approximately 20% of the plants rogued in 2005 for rust susceptibility, coarse leaf, late maturity, or light green color. Seed from the remainder of the plants was bulked to form breeders seed. Breeder seed was produced in 2005.

3. Silver Hawk was tested for turf in Texas and results suggest it would be adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2006	2007	2006	2007	2006	2007
Silver Hawk	131	123	97	112	18.0	24.5
Rebel 3D	144	118	97	122	22.8	34.1
Rebel II	131	120	126	132	22.5	30.2
Bonanza	134	123	124	133	25.5	33.5
LSD (.05)	1.6	2.9	7.8	9.6	2.0	2.9
C.V. - %	0.7	1.5	1.0	5.1	0.9	6.6

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		<i>Density (1-9)</i>		Leaf texture (1-9)	
	Texas		Texas		Texas		Texas	
	2007	2008	2007	2008	2007	2008	2007	2008
Silver Hawk	5.8	5.9	8.0	7.1	7.5	7.0	6.3	6.3
Ky 31	4.8	4.1	6.2	5.6	5.7	5.4	5.0	4.3
Rebel 3D	3.9	4.2	5.7	6.8	3.6	4.5	7.3	5.7
Rebel IV	5.4	5.4	7.4	6.7	6.8	6.3	6.0	6.0
Tulsa Time	6.3	6.3	8.1	7.3	7.8	7.7	6.7	7.0
LSD (.05)	0.6	0.7	0.5	0.7	0.9	1.1	0.9	0.8
C.V. - %	6.8	7.6	4.2	5.9	7.8	10.3	9.4	7.6

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, finest leaf texture, darkest green color and highest density.

6. Breeder seed was first produced in 2005. A supply of Silver Hawk 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.



# Tetrapro

1. Variety name: Tetrapro Kind: Annual ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): B-5.0561  
 Date submitted: January 2009

2. TXR2005-T4-1 is a 3-way cross from ryegrass breeding lines TXR2000-T2, TXR2002-T17, and the cultivar Jumbo. Both of the above TAES lines are derived from germplasm of TAM 90, which had been treated with colchicine to double the chromosome number from 14 to 28. TXR2000-T2 and TXR2002-17 had been selected for high forage potential. The 3-way cross was made by growing replicated adjacent rows of TXR2000-T2, TXR2002-T17, and Jumbo. Any plants not exhibiting good forage potential (large plants with wide leaves and high tiller number) were removed from the population prior to cross-pollinating. Seed was harvested from individual plants and bulked. In 2003-2004, this seed was grown in a space planting (500 plants) at Overton, Texas. Eighty-five plants exhibiting high forage protein and high forage potential were allowed to cross-pollinate and produced seed and seed was bulked. Plants with less than 23% protein were eliminated from the population and plants with more than 23% were saved and allowed to cross-pollinate and produce seed. In 2004-2005, this seed was increased in Lebanon, Oregon. This seed was named Tetrapro and designated breeder seed in 2005.
3. Tetrapro was tested for forage in Florida and Texas and performance suggests it is adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Spike Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2006	2007	2006	2007	2006	2007
TetraPro	133	128	101	137	29.7	37.0
Prine	132	126	105	139	30.9	36.9
Jumbo	137	126	99	136	29.6	36.9
Faithful	139	129	89	102	28.5	28.0
LSD (.05)	3.8	3.7	13.9	5.5	2.1	1.5
C.V. - %	1.4	1.6	8.2	2.4	4.2	2.3

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

Variants to be expected and frequency: <5% of smaller, fine textured plants

5. Forage Use	Forage Yield (lbs/acre)		Forage Yield (lbs/acre)		Crown rust ratings	
	2005-2006	2006-2007	2005-2006	2006-2007	2007-08	2006-07
	Overton	Overton	Beaumont	Beaumont	Florida	Texas
TetraPro	6767	2949	5685	6404	1.3	0.3
Marshal	6087	3060	3830	3891	7.3	1.3
Jumbo	7152	2686	5307	5074	1	0
Prine	7165	2717	5694	5694	1.5	0
LSD (.05)	647	693	.	.	1.2	0.8
Variance=range	3010	1025	3370	2473	7.3	1.7

•Scale used to report traits (if appropriate): Measured 0-10 in FL and 0-3 in TX, 0=no disease

6. Breeder seed was first produced in 2005. A supply of Tetrapro 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. 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.



# Whisper

1. Variety name: Whisper Kind: Sheep fescue  
 Genus: Festuca Species: ovina  
 Experimental designation (s): B-3.0555  
 Date submitted: January 2009

2. In Fall 2001, approximately 240 plants of Azure sheeps fescue and 240 plants from an undeveloped germplasm pool originating from individual plants from Reliant II with blue leaf color crossed with individual plants collected from Rhode Island, New Jersey, and Maine during 1990 to 1999 planted in adjacent rows near Lebanon, OR (NE collections). In Summer 2002, approximately ten plants from Reliant II x NE collections with blue foliage color were left to pollinate and set seed. Approximately 57 plants with intense blue leaf color and high panicle number were harvested from the Azure maternal plants. In Fall 2002, 240 seedlings from the Azure and Reliant II re-selections were planted together in space plant nurseries. In Spring 2003, all plants with green-colored foliage, approximately ten percent of each source, were rogued from the nursery. During Summer 2003, harvest was conducted by maternal line and bulked in equal amounts. Breeder seed was declared in 2003.

3. Whisper was tested for turf in Oregon and performance suggests it is adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
Traits	2007	2008	2007	2008	2007	2008
Whisper	103	103	47.9	55.2	9.1	9.9
Azure	114	109	47.7	60.1	9.6	9.8
Scaldis	122	114	59.5	66.3	10.8	11.1
SR3000	119	113	56.7	62.8	10.2	10.6
LSD (.05)	7.9	4.7	7.1	7.1	2.6	1.6
C.V. - %	4.0	2.5	7.8	6.6	15.2	9.2

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

Variants to be expected and frequency: <5% variants. Any variants would be slightly taller or with a more coarse leaf.

5. Turf Use	Turf Quality (1-9)		Turf Density (1-9)		<i>Turf uniformity (1-</i>		Blue Color (1-9)	
	Oregon		Oregon		Oregon		Oregon	
a)	2007	2008	2007	2008	2007	2008	2007	2008
b)								
Whisper	4.8	5.5	4.8	4.9	6	5	6.5	6.5
Reliant II	3.8	3.2	6	5.6	6.8	6.8	3	2.8
Reliant IV	6.8	6.3	7.1	5.8	7.8	8	2	2
Azure	4.8	5.1	4.9	4.9	6	5.3	5.5	6.3
LSD (.05)	0.5	0.6	0.7	0.4	1	0.5	0.7	0.7
C.V. - %	9.4	11.6	12.3	6.7	5	5.4	10	11

•Scale used to report traits (if appropriate): 1-9 with 9= ideal turf.

6. Breeder seed was first produced in 2003. A supply of Whisper 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.



## C-SMX

1. Variety name: \_\_\_\_\_ Kind: Strong red creeper  
 Genus: Festuca Species: rubra subsp. rubra  
 Experimental designation (s): C-SMX  
 Date submitted: January 2009

2. C-SMX strong creeping red fescue (*Festuca rubra* L. subsp. *rubra*) is a turf-type cultivar selected for dark green color, increased shoot density, leaf spot resistance and turf quality from the progenies of 10 clones tracing to plants from Rutgers from the 1993 and 1994 fine fescue trials with the Rose City endophyte, plants with the AC-1 endophyte, a clonal plant from the 1995 fine fescue test at North Brunswick, NJ identified as P87, and a few plants of Boreal. In Fall 2000, twenty-four progeny of each of the 10 clones and approximately 48 plants from Boreal were established in an isolated nursery in Oregon. In Spring 2001, approximately 30% of individual plants were rogued for poor color or disease susceptibility. Seed was bulked by maternal source with breeders seed declared in 2001.

3. C-SMX was tested for turf in Michigan and performance suggests it is adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2004	2005	2004	2005	2004	2005
C-SMX	132	104	55	75.6	10.2	12.5
Boreal	141	105	67	88.1	13.2	16.1
Flyer	97	91	81	86.7	15.7	15.0
Ensylva	109	102	82	83.9	14.4	14.7
Shademaster	92	94	78	86.5	16.4	14.1
LSD (.05)	29.0	4.5	15.4	4.1	2.9	7.0
C.V. - %	7.6	7.8	14.1	5.8	13.7	1.6

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

Variants to be expected and frequency: <5% variants. Any variants would be slightly taller or with a more coarse leaf.

5. Turf Use	Turf Quality (1-9)		Leaf Texture (1-9)		<i>Genetic Color (1-9)</i>		Spring Density (1-9)	
	Michigan		Michigan		Michigan		Michigan	
	2006	2007	2006	2007	2006	2007	2006	2007
C-SMX	6	6	4	7	5.7	5.3	5.3	5.3
Wendy Jean	6.5	5.5	3.7	7.3	3.3	5.3	5.3	5.3
Boreal	4	3.4	3.3	7	4.3	4	3	2.7
Shademaster	3.6	3.5	5.3	7	4.7	4	3.3	3
Pathfinder	5.4	5.5	4.7	7.7	4	5	4.7	4.3
LSD (.05)	0.7	0.9	1.3	0.8	2.2	1.3	1.8	2.1
C.V. - %	7.9	10.3	19.2	7.1	28.4	13.6	24.1	26.1

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, finest leaf texture, darkest green color and highest density.

6. Breeder seed was first produced in 2001. A supply of C-SMX 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-6.0729

1. Variety name: \_\_\_\_\_ Kind: chewings  
 Genus: Festuca Species: rubra var commutata  
 Experimental designation (s): B-6.0729  
 Date submitted: January 2009

2. B-6.0729 chewings fescue is the result of crosses with plants from two groups of plants that were grown in a greenhouse using a selection process with a salinity amended soil or a soil media that forced root competition for moisture. Parentage of B-6.0729 includes plants from: 1) an undeveloped germplasm pool derived from paired crosses among the cultivars Jamestown II, a collection of chewings fescues collected in Rhode Island in 1994, and Jamestown IV that was cycled through various combinations of intercrossing in Oregon and planting in turf plots in Rhode Island and Oregon; and 2) Longfellow II. In 2004, the plants were placed in a space plant nursery near Lebanon, OR, and in 2005, plants were rogued for color and seed head number. Breeder seed was declared in 2005.
3. B-6.0729 was tested for turf in Rhode Island and performance suggests it is adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
	2007	2008	2007	2008	2007	2008
B-6.0729	119	119	71	86	12.4	14.7
Jamestown IV	118	120	71	87	12.3	14.7
Jamestown II	114	120	76	92	13.4	15.5
Ambrose	114	113	69	87	11.6	14.3
LSD (.05)	4.6	3.7	5.7	6.1	1.5	1.7
C.V. - %	2.4	1.9	4.9	4.1	7.3	7.0

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

Variants to be expected and frequency: <5% variants. Any variants would be slightly taller or with a more coarse leaf.

5. Turf Use	Turf Quality (1-9)		Summer stress resistance (1-9)		<i>Summer cover (%)</i>		Density (1-9)	
	Rhode Island		Rhode Island		Rhode Island		Rhode Island	
	2007	2008	2007	2008	2007	2008	2007	2008
B-6.0729	6.2	6.7	7.7	8	98.8	92.3	3	7.7
Jamestown IV	5.7	5.7	6.7	5.7	97.4	93.9	4.3	6
Jamestown II	5.9	7	7	7	98.3	92.1	4.3	8.7
Ambrose	5.2	5.9	5.7	6.7	98.5	72.1	4	5
Columbra II	5.7	6.4	6	6.7	98.8	92.2	4.7	5.3
LSD (.05)	1.1	1.8	1.5	2.2	6.2	20.9	1.6	1.4
Variance=range	2	3.3	4	3.7	8.6	33.8	4.7	6.7

•Scale used to report traits (if appropriate): 1-9 with 9= ideal turf, 1-100 with 100%=full cover.

6. Breeder seed was first produced in 2005. A supply of B-6.0729 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-6.0541

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): B-5.0541  
 Date submitted: January 2009

2. In Fall 2003, a polycross with 1,056 plants was planted from five maternal sources: 1) polycross with USDA rust resistant plants crossed with Rebel Jr, 5301, and undeveloped germplasm pool from Rebel II, Rebel III, Tribute, Rebel Jr., Rebel 3D, and Rebel 2000 ; 2) Rebel IV; 3) 1998-1999 undeveloped germplasm pool from Rebel I, Rebel III, Tribute, Rebel Jr., Rebel 3D, and Rebel 2000; 4) undeveloped developed germplasm pool x USDA rust resistant plants x Five Point; and 5) 1998-99 undeveloped germplasm pool x Rebel 3D. Approximately twenty percent of the nursery was rogued, by each maternal source, for coarse leaf texture, yellow color, and early maturity prior to pollination. Seed was harvested by the five maternal sources and established in turf plots in Texas in Fall 2004. In Spring 2005, the five maternal sources in Oregon were rogued for leaf color and texture based on turf plot data with an additional approximately twenty percent rogued. Seed was bulk harvested in 2005 with breeders seed declared in 2005.

3. B-5.0541 was tested for turf in Texas and performance suggests it would be adapted there.

4. Growth & Morphology Traits	Heading Date (Julian) Lebanon, Oregon		Plant Height (cm) Lebanon, Oregon		Panicle Length (cm) Lebanon, Oregon	
	2006	2007	2006	2007	2006	2007
	B-5.0541	138	122	86	100	15.7
Rebel II	131	120	126	132	22.5	30.2
Bonanza	134	123	124	133	25.5	33.5
Rebel Jr.	134	122	103	108	21.4	28.6
LSD (.05)	1.6	2.9	7.8	9.6	2.0	2.9
C.V. - %	0.7	1.5	1.0	5.1	0.9	6.6

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

Variants to be expected and frequency: <5%; any variants would be slightly taller, have a coarser leaf or be lighter green

5. Turf Use	Turf Quality (1-9)		Leaf Color (1-9)		Density (1-9)		Leaf texture (1-9)	
	Texas		Texas		Texas		Texas	
	2007	2008	2007	2008	2007	2008	2007	2008
B-5.0541	5.7	5.6	7.7	6.9	7.2	6.8	6.0	6.3
Ky 31	4.8	4.1	6.2	5.6	5.7	5.4	5.0	4.3
Rebel 3D	3.9	4.2	5.7	6.8	3.6	4.5	7.3	5.7
Rebel IV	5.4	5.4	7.4	6.7	6.8	6.3	6.0	6.0
Tulsa Time	6.3	6.3	8.1	7.3	7.8	7.7	6.7	7.0
LSD (.05)	0.6	0.7	0.5	0.7	0.9	1.1	0.9	0.8
C.V. - %	6.8	7.6	4.2	5.9	7.8	10.3	9.4	7.6

•Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, finest leaf texture, darkest green color and highest density.

6. Breeder seed was first produced in 2005. A supply of B-5.0541 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-6.0438

1. Variety name: \_\_\_\_\_ Kind: Roughstalk bluegrass  
 Genus: Poa Species: trivialis  
 Experimental designation (s): B-6.0438  
 Date submitted: January 2009
2. B-6.0438 was developed by Blue Moon Farms LLC beginning in 2003 with a nursery of plants originating from Laser, Laser II, Sabre, Sabre II, and undeveloped germplasm grown for genetic diversity. Desirable plants were harvested and planted into progeny rows in 2004. During the next three generations, plants were selected for traits such as dark green color, fine leaf texture and reduced seed shattering. Breeder seed was first produced in 2006.
3. B-6.0438 was tested for turf use in Arizona and Mississippi and shown to be adapted in those areas.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon Oregon		Lebanon Oregon		Lebanon Oregon	
	2007	2008	2007	2008	2007	2008
Traits						
B-6.0438	127	137	62	70	13.6	15.4
Sabre	120	133	67	74	14.9	13.6
Polder	128	132	68	74	15.6	14.2
Colt	121	133	73	83	18.1	16.2
Laser	129	137	60	66	13.5	12.5
LSD (.05)	3.4	1.2	6.1	6.4	1.6	2.1
C.V. -%	1.6	0.5	5.8	5.4	6.7	9.5

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

Variants to be expected and frequency: Less than 5%, slightly taller and/or more coarse texture or purple color

5. Turf Use	Turf Quality (1-9)		Spring Color (1-9)		Texture (1-9)		Seedling Vigor (1-9)	
	2006-2007		2006-2007		2006-2007		2006-2007	
	Mississippi	Arizona	Mississippi	Arizona	Mississippi	Arizona	Mississippi	Arizona
B-6.0438	6.7	5.7	6.3	4.5	8	7.0	5	1.8
Laser	6.5	3.6	6	4.3	8	7.5	6	1.8
League Master	5.5	6.1	4	6.5	7	7.5	5	4.0
LSD (.05)	0.3	0.8	0.5	0.9	0.9	1.0	0.9	0.7
Variance = range	1.5	4.3	4.0	4.3	3.0	4.7	2.0	4.0

●Scale used to report traits (if appropriate): 1-9 with 9 ideal quality, color, texture, or highest vigor.

6. Breeder seed was first produced in 2006. A supply of B-6.0438 breeder seed is maintained in cold storage as seed by Blue Moon Farms, Lebanon, OR. 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. Certified seed is anticipated to be available in 2010. It is undecided if a PVP will be sought.





## B-6.0730

1. Variety name: B-6.0730 Kind: chewings  
 Genus: Festuca Species: rubra var commutata  
 Experimental designation (s): B-6.0730  
 Date submitted: January 2009

2. B-6.0730 chewings fescue is the result of crosses with plants from three populations of plants that were grown in a greenhouse using a selection process with a salinity amended soil or a soil media that forced root competition for moisture. The three populations were: (1) an undeveloped germplasm pool derived from paired crosses among the cultivars Jamestown II, a collection of chewings fescues collected in Rhode Island and Maine in 1994, and Jamestown IV that was cycled through various combinations of intercrossing in Oregon and planting in turf plots in Rhode Island and Oregon from 1990 to 1999; (2) Longfellow II; and (3) K-2, P30, MB66, and Jamestown II. In 2004, the plants from Populations 1, 2, and 3 were planted near Lebanon, OR, with roguing for color prior to pollination, and for seed head number. At harvest, the populations were bulked to constitute breeder seed in 2005.

3. B-6.0730 was tested for turf in Rhode Island and performance suggests it is adapted there.

4. Growth & Morphology	Heading Date (Julian)		Plant Height (cm)		Panicle Length (cm)	
	Lebanon, Oregon		Lebanon, Oregon		Lebanon, Oregon	
Traits	2007	2008	2007	2008	2007	2008
B-6.0730	121	117	67	87	11.6	13.5
Jamestown IV	118	120	71	87	12.3	14.7
Jamestown II	114	120	76	92	13.4	15.5
Ambrose	114	113	69	87	11.6	14.3
LSD (.05)	4.6	3.7	5.7	6.1	1.5	1.7
C.V. - %	2.4	1.9	4.9	4.1	7.3	7.0

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

Variants to be expected and frequency: <5% variants. Any variants would be slightly taller or with a more coarse leaf.

5. Turf Use	Turf Quality (1-9)		Summer stress resistance (1-9)		<i>Summer cover (%)</i>		Density (1-9)	
	Rhode Island		Rhode Island		Rhode Island		Rhode Island	
	2007	2008	2007	2008	2007	2008	2007	2008
B-6.0730	5.9	6.7	6	8	98.6	93	4	6.7
Jamestown IV	5.7	5.7	6.7	5.7	97.4	93.9	4.3	6
Jamestown II	5.9	7	7	7	98.3	92.1	4.3	8.7
Ambrose	5.2	5.9	5.7	6.7	98.5	72.1	4	5
Columbra II	5.7	6.4	6	6.7	98.8	92.2	4.7	5.3
LSD (.05)	1.1	1.8	1.5	2.2	6.2	20.9	1.6	1.4
Variance=range	2	3.3	4	3.7	8.6	33.8	4.7	6.7

•Scale used to report traits (if appropriate): 1-9 with 9= ideal turf, 1-100 with 100%=full cover.

6. Breeder seed was first produced in 2005. A supply of B-6.0730 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.



## Banshee

1. Variety name: Banshee Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-TF 129  
 Date submitted: January 12, 2009

2. Banshee was developed by DLF International Seeds using four selection cycles. The germplasm used to develop Banshee traced to the turf tall fescue varieties Beagle 1, Raptor, Bingo and H6. In all cycles of selection criteria included; fine leaf texture, dark green color, high tiller density and freedom from disease. Breeder seed was first produced in 2006.

3. Banshee was tested for turf use at one location in Oregon and one location in Kentucky. It has shown adaptation to these climatic conditions and will be made available for sale in climates represented by those locations. It was developed as a turf variety for use by home owners, golf courses, sod farm and parks/recreation. It has adequate turf quality and disease resistance for those purposes.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
	2007	2008	2007	2008	2007	2008
<i>Banshee</i>	150.3	132.1	49.0	96.4	7.2	11.4
<i>Bingo</i>	147.7	134.4	55.2	97.8	7.7	13.9
<i>Kentucky 31</i>	141.8	133.7	94.9	141.2	13.0	18.8
<i>Rebel Jr.</i>	153.3	136.8	54.3	100.6	9.2	13.7
<i>Silverado</i>	157.2	139.0	53.0	85.6	8.4	13.1
LSD (.05)	6.2	4.0	14.3	11.5	2.6	1.8
CV (%)	3.0	2.0	17.6	8.1	22.5	9.3

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

Variants to be expected and frequency: <0.5%, uniform and stable

5. Turf Use	Turf Quality (1-9)		Brown Patch (1-9)		Fusarium Blight (1-9)		Generic Color (1-9)	
	Berry, Kentucky		Berry, Kentucky		Philomath, Oregon		2006	
	2007	2008	2007	2008	2007	2008	A	B
<i>Banshee</i>	7.5	5.7	7.7	4.5	5.7	5.7	8.0	8.0
<i>Bingo</i>	6.5	5.4	9.0	3.3	3.7	4.3	6.3	6.3
<i>Kentucky 31</i>	2.3	2.7	9.0	6.3	3.7	3.0	1.7	1.0
<i>Beagle 1</i>	6.6	4.9	7.7	3.0	5.0	4.3	5.7	6.3
<i>Corgi</i>	6.7	5.1	6.7	2.5	3.0	3.0	6.7	6.7
LSD (.05)	0.6	0.6	1.2	1.6	1.5	1.5	1.0	0.6
CV (%)	7.3	8.0	10.8	24.5	24.0	24.0	11.0	6.5

●Scale used to report traits: 1-9, 9=Ideal turf or no disease or dark green color

●Additional Information: When grown in western Oregon in 2007-08 the average heading date was May 20. This was not significantly different than Bingo; it was three days later than KY-31 and seven days earlier than Silverado.

\*\*Locations in line b) by the following key: A: Philomath, OR B: Berry, KY

6. Breeder seed of Banshee was first produced in 2006. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/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. Certified seed is anticipated to be available in 2009. PVP certification option has not been determined at this time.



# Fat Cat

1. Variety name: Fat Cat Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-TF 161  
 Date submitted: January 12, 2009

2. Fat Cat was developed by DLF International Seeds using multiple selection cycles. The germplasm used to develop Fat Cat traced to the turf tall fescue varieties Firebird, Beagle 1 and Raptor. In all cycles of selection criteria; fine leaf texture, dark green color, high tiller density and freedom from disease were used. Breeder seed was first produced in 2006.

3. Fat Cat was tested for turf use at one location in Oregon and one location in Kentucky. It has shown adaptation to these climatic conditions and will be made available for sale in climates represented by those locations. It was developed as a turf variety for use by home owners, golf courses, sod farm and parks/recreation. It has adequate turf quality and disease resistance for those purposes.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
Traits	2007	2008	2007	2008	2007	2008
<i>Fat Cat</i>	149.3	139.8	57.6	93.2	7.2	11.5
Bingo	147.7	134.4	55.2	97.8	7.7	13.9
Kentucky 31	141.8	133.7	94.9	141.2	13.0	18.8
Rebel Jr.	153.3	136.8	54.3	100.6	9.2	13.7
Silverado	157.2	139.0	53.0	85.6	8.4	13.1
LSD (.05)	6.2	4.0	14.3	11.5	2.6	1.8
CV (%)	3.0	2.0	17.6	8.1	22.5	9.3

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

Variants to be expected and frequency: <0.5%, uniform and stable

5. Turf Use	Turf Quality (1-9)		Brown Patch (1-9)		Fusarium Blight (1-9)		Generic Color (1-9)	
	Berry, Kentucky		Berry, Kentucky		Philomath, Oregon		2006	
a)								
b)	2007	2008	2007	2008	2007	2008	A	B
<i>Fat Cat</i>	7.1	5.1	8.0	5.0	5.7	5.7	8.0	8.0
Bingo	6.5	5.4	9.0	3.3	3.7	4.3	6.3	6.3
Kentucky 31	2.3	2.7	9.0	6.3	3.7	3.0	1.7	1.0
Beagle 1	6.6	4.9	7.7	3.0	5.0	4.3	5.7	6.3
Rembrandt	6.2	5.8	7.0	5.3	4.7	5.3	5.3	6.3
LSD (.05)	0.6	0.6	1.2	1.6	1.5	1.5	1.0	0.6
CV (%)	7.3	8.0	10.8	24.5	24.0	24.0	11.0	6.5

●Scale used to report traits: 1-9, 9=Ideal turf or no disease or dark green color

●Additional Information: When grown in western Oregon in 2007-08 the average heading date was May 23. This was not significantly different than Bingo; it was six days later than KY-31 and four days earlier than Silverado.

\*\*Locations in line b) by the following key: A: Philomath, OR B: Berry, KY

6. Breeder seed of Fat Cat was first produced in 2006. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/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. Certified seed is anticipated to be available in 2009. PVP certification option has not been determined at this time.



# Terrier

1. Variety name: Terrier Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-TF 135  
 Date submitted: January 12, 2009

2. Terrier was developed by DLF International Seeds using three selection cycles. The germplasm used to develop Terrier traced to the turf tall fescue varieties Beagle 1, Raptor and Corgi. In all cycles of selection criteria; dwarf growth habit, fine leaf texture, dark green color, and high tiller density were used. Breeder seed was first produced in 2005.
3. Terrier was tested for turf use at one location in Oregon and one location in Kentucky. It has shown adaptation to these climatic conditions and will be made available for sale in climates represented by those locations. It was developed as a turf variety for use by home owners, golf courses, sod farm and parks/recreation. It has adequate turf quality and disease resistance for those purposes.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
Traits	2007	2008	2007	2008	2007	2008
<i>Terrier</i>	153.0	139.4	43.2	89.9	6.0	10.6
Bingo	147.7	134.4	55.2	97.8	7.7	13.9
Kentucky 31	141.8	133.7	94.9	141.2	13.0	18.8
Rebel Jr.	153.3	136.8	54.3	100.6	9.2	13.7
Silverado	157.2	139.0	53.0	85.6	8.4	13.1
LSD (.05)	6.2	4.0	14.3	11.5	2.6	1.8
CV (%)	3.0	2.0	17.6	8.1	22.5	9.3

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

Variants to be expected and frequency: <0.5%, uniform and stable

5. Turf Use	Turf Quality (1-9)		Brown Patch (1-9)		Fusarium Blight (1-9)		Generic Color (1-9)	
	Berry, Kentucky		Berry, Kentucky		Philomath, Oregon		2006	
a)								
b)	2007	2008	2007	2008	2007	2008	A	B
<i>Terrier</i>	7.0	5.5	8.0	5.2	5.7	4.7	8.0	7.7
Bingo	6.5	5.4	9.0	3.3	3.7	4.3	6.3	6.3
Kentucky 31	2.3	2.7	9.0	6.3	3.7	3.0	1.7	1.0
Beagle 1	6.6	4.9	7.7	3.0	5.0	4.3	5.7	6.3
Rembrandt	6.2	5.8	7.0	5.3	4.7	5.3	5.3	6.3
LSD (.05)	0.6	0.6	1.2	1.6	1.5	1.5	1.0	0.6
CV (%)	7.3	8.0	10.8	24.5	24.0	24.0	11.0	6.5

●Scale used to report traits: 1-9, 9=Ideal turf or no disease or dark green color

●Additional Information: When grown in western Oregon in 2007-08 the average heading date was May 25. This was not significantly different than Silverado; it was eight days later than KY-31 and five days later than Bingo.

\*\*Locations in line b) by the following key: A: Philomath, OR B: Berry, KY

6. Breeder seed of Terrier was first produced in 2005. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/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. Certified seed is anticipated to be available in 2009. PVP certification option has not been determined at this time.



# Toccoa

1. Variety name: Toccoa Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): IS-TF 151  
 Date submitted: January 12, 2009

2. Toccoa was developed by DLF International Seeds using multiple selection cycles. The germplasm used to develop Toccoa traced to the turf tall fescue varieties Kalahari, Corgi and Raptor. In all cycles of selection criteria; dwarf growth habit, fine leaf texture, dark green color, and high tiller density were used. Breeder seed was first produced in 2006.
3. Toccoa was tested for turf use at one location in Oregon and one location in Kentucky. It has shown adaptation to these climatic conditions and will be made available for sale in climates represented by those locations. It was developed as a turf variety for use by home owners, golf courses, sod farm and parks/recreation. It has adequate turf quality and disease resistance for those purposes.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Philomath, Oregon		Philomath, Oregon		Philomath, Oregon	
	2007	2008	2007	2008	2007	2008
Toccoa	153.2	138.9	42.4	88.7	5.7	10.1
Bingo	147.7	134.4	55.2	97.8	7.7	13.9
Kentucky 31	141.8	133.7	94.9	141.2	13.0	18.8
Rebel Jr.	153.3	136.8	54.3	100.6	9.2	13.7
Silverado	157.2	139.0	53.0	85.6	8.4	13.1
LSD (.05)	6.2	4.0	14.3	11.5	2.6	1.8
CV (%)	3.0	2.0	17.6	8.1	22.5	9.3

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

Variants to be expected and frequency:      <0.5%, uniform and stable

5. Turf Use	Turf Quality (1-9)		Brown Patch (1-9)		Fusarium Blight (1-9)		Generic Color (1-9)	
	Berry, Kentucky		Berry, Kentucky		Philomath, Oregon		2006	
	2007	2008	2007	2008	2007	2008	A	B
Toccoa	7.6	5.6	8.3	4.2	5.3	4.3	8.7	7.7
Bingo	6.5	5.4	9.0	3.3	3.7	4.3	6.3	6.3
Kentucky 31	2.3	2.7	9.0	6.3	3.7	3.0	1.7	1.0
Beagle 1	6.6	4.9	7.7	3.0	5.0	4.3	5.7	6.3
Rembrandt	6.2	5.8	7.0	5.3	4.7	5.3	5.3	6.3
LSD (.05)	0.6	0.6	1.2	1.6	1.5	1.5	1.0	0.6
CV (%)	7.3	8.0	10.8	24.5	24.0	24.0	11.0	6.5

●Scale used to report traits: 1-9, 9=Ideal turf or no disease or dark green color

●Additional Information: When grown in western Oregon in 2007-08 the average heading date was May 25. This was not significantly different than Silverado; it was eight days later than KY-31 and five days later than Bingo.

\*\*Locations in line b) by the following key:      A: Philomath, OR      B: Berry, KY

6. Breeder seed of Toccoa was first produced in 2006. Breeder seed is maintained by DLF International Seeds, Halsey, Oregon. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/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. Certified seed is anticipated to be available in 2009. PVP certification option has not been determined at this time.



# Brutus

1. Variety name: Brutus Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): TF9902  
 Date submitted: January 12, 2009

2. Brutus tall fescue was developed using phenotypic recurrent selection for stem rust resistance and vigor, followed by polycross progeny testing for forage and seed yield. A population tracing to the varieties Desperado, Dovey, Renegade, and Stargrazer, and several FFR breeding lines tracing to KY-31 was screened 3 cycles in the greenhouse at Battle Ground, IN for stem rust resistance, and in the field at Battle Ground for plant vigor. Polycross progeny seed was produced on selected clones and used to establish forage yield trials at Buck Creek, IN and Franklin, TN, and a seed yield trial at Salem, OR. The 13 parent clones of Brutus were selected based on superior progeny forage and seed yields, and placed in isolation at Touchet, WA in 1999 for the production of syn-1 breeder seed in 2000.

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

4. Growth & Morphology	Plant Height (cm)			Panicle Length (cm)			Heading Date (May 1=1)		
	Buck Creek, IN			Buck Creek, IN			Buck Creek, IN		
	04	05	06	04	05	06	04	05	06
Brutus	101.9	107.2	123.8	22.9	21.7	22.5	16.0	23.0	22.3
Fawn	92.6	101.9	120.0	18.7	19.6	19.5	11.8	17.5	15.3
KY-31	94.1	100.4	123.5	18.8	19.5	21.3	12.8	18.5	15.5
LSD (.05)	3.3	4.7	5.4	1.2	2.0	2.4	1.3	1.9	1.9
CV%	2.7	3.7	3.7	4.7	7.7	9.4	6.7	7.0	7.4

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) - DM				Stem Rust Resistance*		
	Buck Creek, IN		West Salem, WI		Buck Creek, IN	Franklin, TN	Touchet, WA
	2004	2005	2005	2006	2008	2008	2004
Forage							
Brutus	8.40	7.76	5.82	3.90	1.3	1.7	1.0
KY-31	7.52	6.91	5.34	3.48	4.7	8.3	7.3
Select	8.07	7.61	6.17	3.60	4.3	4.0	6.3
Enhance	8.08	7.15	6.36	3.75	2.3	3.0	1.3
LSD (.05)	1.06	0.70	0.53	0.22	1.1	2.1	2.2
CV (%)	9.6	6.8	6.6	4.3	21.8	35.7	49.3

\*Stem rust rating: visual field ratings: 1 = little or no infection, 9 = 90% of plants have severe infection.

6. Recognized classes of seed for Brutus tall fescue are breeder, foundation, and certified. Syn-1 breeder seed was produced in isolation at Touchet, WA in 2000. 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 Brutus will be offered for sale in 2010. Plant variety protection will not be sought for this variety.



## Alexa II

1. Variety name: Alexa II Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-2404, 95-2404  
 Date submitted: January 12, 2009

2. ‘Alexa II’ Kentucky bluegrass originated as an apomictic, single-plant selection from the open-pollinated (OP) progeny of Jacklin breeding line, 87-0057. 87-0057 originated as an OP hybrid progeny of ‘Midnight,’ identified in the field in 1987. 87-0057 has longer, lighter-colored culms, more seedheads, and a lower apomixis rate than Midnight. It was dropped from consideration as a cultivar in its own right because of its high sexuality. Seeds harvested from OP 87-0057 were sown in greenhouse flats in spring of 1994, and transplanted into a spaced-plant nursery. Offspring with characteristics dissimilar to 87-0057 were selected during maturation in spring of 1995. Plant number 95-2404 (the experimental designation for Alexa II) was identified as being unique from its maternal parent by the color and texture of its foliage, prior to seedhead expression. First breeder seed was produced in 2004 and first experimental certified seed in 2007.

3. Alexa 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)		Culm to flagleaf height (cm)		Flagleaf Width (mm)	
	2007		2007		2007	
	Rathdrum, ID	Nine Mile, WA	Rathdrum, ID	Nine Mile, WA	Rathdrum, ID	Nine Mile, WA
<i>Alexa II</i>	50.1	42.5	26.5	19.9	2.59	2.64
<i>Midnight</i>	48.8	45.3	25.8	22.3	2.53	3.19
<i>Limousine</i>	50.3	45.2	26.3	21.6	3.00	3.13
<i>Nugget</i>	32.3	31.0	12.7	11.4	3.20	2.97
<i>Touchdown</i>	65.6	61.9	37.3	33.3	3.12	3.90
<i>Impact</i>	51.2	50.0	25.7	24.4	3.37	3.37
LSD (.05)	2.5	2.6	2.5	2.4	0.36	0.37
Variance %	11.5	11.7	21.8	21.7	26.60	26.06

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

Variants to be expected and frequency: Averaged 99.6% apomictic, 0.1% were variants in the vegetative (pre-heading) stage, 0.1% were heading maturity variants, 0% were seedhead variants or headless plants, and 0.2% were miniature plants.

5. Turf Use	Turf Quality Appendix Table		Leafspot		Leaf Texture		Summer Density	
	NTEP Means		Adelphia, New Jersey		NTEP Means		NTEP Means	
	2006	2007	2006	2007	2006	2007	2006	2007
<i>Alexa II</i>	6.4	6.1	9.0	6.0	8.7	6.1	6.4	7.5
<i>Midnight</i>	6.4	5.9	8.0	6.0	8.2	6.0	6.9	7.0
<i>Baron</i>	5.5	5.2	7.3	5.7	7.7	5.8	6.1	6.3
<i>Nu Destiny</i>	6.2	5.7	7.0	5.7	8.3	5.8	6.2	6.8
<i>Bluestone</i>	6.1	5.7	8.0	6.3	8.0	5.8	6.3	7.3
LSD (.05)	0.2	0.2	1.5	1.1	1.1	0.3	0.6	0.8
Variance %	9.8	11.5	13.1	11.3	12.5	10.4	10.7	10.4

•Scale used to report traits (if appropriate): 1-9, 1 being poor, 9 being superior

- 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
- First experimental certified seed of Alexa II was produced in 2007; pending NGRVB acceptance it will be tagged as certified. As of this time we do not plan to seek a PVP.



## Front Page

1. Variety name: Front Page Kind: Kentucky Bluegrass  
 Genus: Poa Species: Pratensis  
 Experimental designation (s): J-2885, 94-2885  
 Date submitted: January 12, 2009
2. Front Page originated as an apomictic, single-plant selection from the hybrid progeny of cross 92-4230, which was created in the field 6/1/1992. In 92-4230, Jacklin breeding line 92-0076 was used as the maternal parent and 'Midnight' as the pollen parent. Seeds harvested from 92-0076 were transplanted into a spaced-plant nursery. Front Page was selected during maturation of this block in spring of 1994. First Breeder seed was produced in 2000 and first Certified seed (pending NGVRB approval) in 2007.
3. Front Page's primary application is turf. It has been tested and is adaptable in ID. It is in the 2005 NTEP, and has been tested and found adaptable in CO, IL, IN, IA, KS, KY, MA, ME, MD, MI, MN, MO, NE, NJ, NC, NY, OH, OK, PA, RI, SD, UT, VA, WA, WI, and WY.

4. Growth & Morphology Traits	Plant Height (cm) Rathdrum, ID		Panicle Length (cm) Rathdrum, ID		Flagleaf Height (cm) Rathdrum, ID	
	2001	2002	2001	2002	2001	2002
	<i>Front Page</i>	47.7	49.7	9.49	7.51	12.4
<i>Alexa</i>	41.7	48.0	8.92	7.29	8.6	28.9
<i>Chicago II</i>	47.1	42.7	7.78	6.28	11.7	21.6
<i>EverGlade</i>	41.2	44.6	8.36	7.15	8.2	27.0
<i>Liberator</i>	44.3	47.5	8.59	7.11	11.7	27.0
LSD (.05)	1.1	0.9	0.26	0.20	1.0	1.1
Variance %	81.5	52.8	23.56	16.74	235.5	121.7

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

Variants to be expected and frequency: 'Front Page' is a uniform variety averaging about 98% apomictic. About 1% of plants are lighter green in color and may appear as off-types although they are true variants. About 0.2% of plants are a taller-growing variant. About 1% of plants are a later maturing.

5. Turf Use	Turf Quality		Leaf Spot		Leaf Texture		Summer Density	
	NTEP Means		NTEP Means		NTEP Means		NTEP Means	
	2004	2005	2004	2005	2004	2005	2004	2005
<i>Front Page</i>	5.9	5.5	8.2	6.5	6.3	6.0	9.0	8.0
<i>Chicago II</i>	5.5	5.2	8.0	6.0	5.8	5.3	9.0	9.0
<i>EverGlade</i>	6.1	5.7	8.2	7.2	6.6	6.0	8.7	9.0
<i>Midnight</i>	6.0	5.7	8.3	6.7	6.3	6.0	9.0	9.0
<i>Nu Destiny</i>	6.3	5.8	8.3	6.5	6.5	6.0	8.7	8.7
LSD (.05)	0.2	0.3	0.9	1.3	0.3	0.6	0.5	1.0
Variance %	12.5	14.0	10.4	19.5	10.4	12.0	3.3	7.2

● Scale used to report traits (if appropriate): 1-9, 1 being poor, 9 being superior

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

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

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 Front Page was produced in 2007; pending NGVRB acceptance it will be tagged as certified. As of this time we do not plan to seek a PVP.





# Solar Eclipse

1. Variety name: Solar Eclipse Kind: Kentucky bluegrass  
 Genus: Poa Species: Pratensis  
 Experimental designation (s): J-2399, 95-2399  
 Date submitted: January 12, 2009

2. Solar Eclipse' Kentucky bluegrass originated as an apomictic, single-plant selection from the open-pollinated (OP) progeny of Jacklin breeding line, 87-0057. 87-0057 originated as an OP hybrid progeny of 'Midnight,' identified in the field in 1987. Seeds harvested from open pollinated 87-0057 plants were sown in greenhouse flats in spring of 1994, and transplanted into a spaced-plant nursery. Plant number 95-2399 (the experimental designation for Solar Eclipse) was identified as being unique from its maternal parent. First Breeder seed was produced in 2004.
3. Solar Eclipse's primary application is turf. It has been tested and is adaptable in ID and WA. It is in the 2005 National Turfgrass Evaluation Program, 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)		Panicle Length (cm)		Flagleaf Height (cm)	
	2007		2007		2007	
	Post Falls, ID	Nine Mile, WA	Post Falls, ID	Nine Mile, WA	Post Falls, ID	Nine Mile, WA
Traits						
<i>Solar Eclipse</i>	48.1	56.5	6.03	6.80	23.6	30.4
<i>Midnight</i>	48.8	45.3	5.95	5.62	25.8	22.3
<i>Granite</i>	43.8	49.7	5.25	6.08	20.6	23.7
<i>Nugget</i>	32.3	31.0	5.07	4.76	12.7	11.4
<i>Nu Destiny</i>	45.5	49.7	5.75	5.94	22.3	24.7
<i>Award</i>	48.1	44.1	5.79	5.38	23.5	20.1
LSD (.05)	2.5	2.6	0.46	0.49	2.5	2.4
Variance %	11.5	11.7	16.54	17.64	21.8	21.7

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

Variants to be expected and frequency: Solar Eclipse averaged 98.6% apomictic. 0.8% were variants in the vegetative (pre-heading) stage, 0% were heading maturity and seedhead variants, and 0.4% were miniature plants.

5. Turf Use	Turf Quality		Leaf Spot		Leaf Texture		Summer Density	
	NTEP Means		Adelphia, New Jersey		NTEP Means		NTEP Means	
	2006	2007	2006	2007	2006	2007	2006	2007
<i>Solar Eclipse</i>	6.4	5.9	8.3	6.3	8.8	6.3	6.2	7.3
<i>Midnight</i>	6.4	5.9	8.0	6.0	8.2	6.0	6.9	7.0
<i>Baron</i>	5.5	5.2	7.3	5.7	7.7	5.8	6.1	6.3
<i>Nu Destiny</i>	6.2	5.7	7.0	5.7	8.3	5.8	6.2	6.8
<i>Granite</i>	6.2	5.9	8.3	6.0	8.2	6.0	6.2	7.3
LSD (.05)	0.2	0.2	1.5	1.1	1.1	0.3	0.6	0.8
Variance %	9.8	11.5	13.1	11.3	12.5	10.4	10.7	10.4

- Scale used to report traits (if appropriate): 1-9, 1 being poor, 9 being superior
- Insert additional information for use by inspectors (if any):

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 Solar Eclipse was produced in 2007; pending NGVRB acceptance it will be tagged as certified. As of this time we do not plan to seek a PVP.



# JR-501

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): JR-501  
 Date submitted: December 12, 2008

2. JR-501 was developed from a greenhouse cross made in 1992 of APM pollinated by Birdie II. Progeny of this cross was planted in a 1992 spaced-plant nursery at Post Falls as 92-0226. An open-pollinated selection from this population, 93-0736, was harvested and planted in company turf trials in 1993. In 1995 plugs were pulled from the Maryland plot based on dark green color and turf performance and planted in a Post Falls spaced-plant nursery. In 1996, 96-3047 was selected from this population and planted in company turf trials in ID and MD. In 1999, 96-3047 was selected and plugs were pulled, coded as 99-0089, and 200 plants were planted in an isolation block in the 1999 Post Falls nursery. In the spring of 2000 the block was rogued twice before anthesis. Surviving plants were allowed to pollinate and their seed was bulk harvested as 00-3938. In May 2001, a 1060-plant isolation block of 00-3938 was planted at Post Falls. Days before anthesis, 35 plants were selected from this block for enhanced color, texture, and freedom of disease and moved to an isolated polycross, 02-8015. Plants in this polycross were individually harvested; near equal amounts of seed were bulked and replicated turf plots were planted in ID, MD, OH, IL and CA. In 2003, about 50 seed from each of the 35 plants in 02-8015 were planted in a 1733-plant isolation block at Post Falls. Before anthesis, 64 uniform, early maturity plants were moved to an isolated polycross, 04-8008. The plants were harvested and the seed bulked. In 2005, the seed was used to plant a 3560-plant isolation block at Post Falls. This block was rogued for uniformity and Breeder seed harvested as JR-501 from the 536 remaining plants.
3. JR-501 is an attractive turf-type perennial ryegrass characterized as having good turf quality, density and medium green color. JR-501 is recommended for use on sports fields, home lawns, parks, and golf courses. It can be grown in full sun or moderate shade. JR-501 has had moderate turf performance in Idaho, Ohio and Maryland.

4. Growth & Morphology	Plant height (cm)		Flagleaf height (cm)		Inflorescence length (cm)	
	2008		2008		2008	
	Post Falls, Idaho	Connell, WA	Post Falls, Idaho	Connell, WA	Post Falls, Idaho	Connell, WA
Traits						
JR-501	52.2	33.4	30.6	19.3	12.3	9.2
Top Gun II	50.9	41.6	30.4	25.1	13.1	9.7
Linn	55.8	46.2	30.6	26.8	13.5	12.3
APM	60.8	42.3	38.1	25.6	15.7	10.2
LSD (.05)	3.85	2.25	3.04	1.77	1.52	0.81
CV%	13.1	13.3	17.9	16.5	20.1	19.2

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

Variants to be expected and frequency: Less than 5% variants have been found in 2 years of production. Identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the JR-501 plants. These variants are relatively infrequent in occurrence and are routinely rogued from seedstock fields during the first year.

5. Turf Use	Turf Quality		Color		Spring greenup		Establishment	
	Idaho	Ohio	Idaho	Ohio	Idaho	Ohio	Idaho	Ohio
JR-501	6.0	3.9	6.8	6.5	5.5	6.0	6.5	3.0
Top Gun II	6.2	5.9	7.3	5.0	5.0	6.5	8.0	5.0
Linn	2.9	1.7	3.0	1.0	3.0	2.0	5.0	2.0
LSD (.05)	0.9	1.4	1.1	2.8	2.3	1.9	1.6	2.8
CV%	11.5	18.3	14.1	35.4	26.7	18.6	16.2	27.4

•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.
7. Certified seed is expected to be sold in 2009. A utility patent rather than PVP is planned.



## JR-502

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: Perenne L  
 Experimental designation (s): JR-502  
 Date submitted: December 12, 2008

2. JR-502 was developed from a greenhouse cross made in 1992 of APM pollinated by Birdie II. Progeny of this cross was planted in a 1992 space-plant nursery at Post Falls as 92-0226. An open-pollinated selection from this population was harvested as 93-0736 and planted in company turf trials in Post Falls and Poolesville, MD in 1993. In 1995 plugs were pulled from the Maryland plot based on dark green color and turf performance and planted in a Post Falls spaced-plant nursery. In 1996, 96-3047 was selected from this population and planted in company turf trials in Post Falls and Poolesville. In 1999, 96-3047 was selected and plugs were pulled, coded as 99-0089, and 200 plants were planted in an isolation block in the 1999 Post Falls nursery. In the spring of 2000 the block was rogued twice before anthesis. Surviving plants were allowed to pollinate and their seed was bulk harvested as 00-3938. In May 2001, a 1060-plant isolation block of 00-3938 was planted at Post Falls. Days before anthesis, 35 plants were selected from this block for enhanced color, texture, and freedom of disease and moved to an isolated polycross, 02-8015. The remaining plants in the 00-3938 block were rogued for uniformity and bulk harvested. The seed was mixed with Kentucky bluegrass (mostly Blue Chip) and established in a 5-acre block in Post Falls. This block was maintained as mown turf. In spring 2004, about 200 perennial ryegrass plants from the 5-acre turf section were selected and planted adjacent to a 02-8015 isolation block in a 2003 Post Falls nursery. This block was rogued for uniformity and the remaining plants were harvested in bulk as JR-502. In 2005, JR-502 was planted in a 3600-plant isolation block at Post Falls. This block was rogued for uniformity and the 789 remaining plants harvested as JR-502 breeder seed.
3. JR-502 is an attractive turf-type perennial ryegrass characterized as having good turf quality, density and medium green color. JR-502 is recommended for use on sports fields, home lawns, parks, and golf courses. It can be grown in full sun or moderate shade. JR-502 has had moderate turf performance in Idaho, Ohio and Maryland.

4. Growth & Morphology	Plant height (cm)		Flagleaf height (cm)		Inflorescence length (cm)	
	2008		2008		2008	
	Post Falls, Idaho	Connell, WA	Post Falls, Idaho	Connell, WA	Post Falls, Idaho	Connell, WA
Traits						
JR-502	51.7	44.3	27.5	26.4	13.7	10.5
Accent II	53.2	41.3	31.4	26.0	12.7	9.5
Linn	55.8	46.2	30.6	26.8	13.5	12.3
APM	60.8	42.3	38.1	25.6	15.7	10.2
LSD (.05)	3.85	2.25	3.04	1.77	1.52	0.81
CV%	13.1	13.3	17.9	16.5	20.1	19.2

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

Variants to be expected and frequency: Less than 5% variants have been found in 2 years of production. Identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the JR-502 plants. These variants are relatively infrequent in occurrence and are routinely rogued from seedstock fields during the first year.

5. Turf Use	Turf Quality		Color		Spring greenup		Establishment	
	Idaho	Ohio	Idaho	Ohio	Idaho	Ohio	Idaho	Ohio
JR-502	5.6	4.3	6.3	4.0	4.0	5.5	7.0	4.0
Accent II	6.2	6.0	7.5	4.0	6.0	6.5	8.5	5.5
Linn	2.9	1.7	3.0	1.0	3.0	2.0	5.0	2.0
LSD (.05)	0.9	1.4	1.1	2.8	2.3	1.9	1.6	2.8
CV%	11.5	18.3	14.1	35.4	26.7	18.6	16.2	27.4

●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.
7. Certified seed is expected to be sold in 2009. A utility patent rather than PVP is planned.



## JT-41

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreb.  
 Experimental designation (s): JT-41  
 Date submitted: December 12, 2008

2. JT-41 is a tall fescue (*Festuca arundinacea* Schreb.) cultivar developed by Jacklin Seed by Simplot®, Post Falls, ID. JT-41 was selected for improved turf quality and dark green color. JT-41 was selected from the maternal progenies of 22 lines in a breeding program initiated in 1987 to improve cultivars of tall fescue for turf use. The maternal parentage of JT-41 derives from: 50% Pixie, 23% Coronado, 9% Southern Choice, 4.5% Bonsai, 4.5% Finelawn Petite, 4.5% Cochise, 2.3% Vegas and 2.3% GQ. Breeding techniques in the population improvement program have included selection, paired crosses and polycrosses. Plants with superior characteristics were advanced to the next cycle of breeding and inferior material discarded. Breeder seed was produced in 2006.

3. JT-41 is an attractive turf-type tall fescue characterized as having good turf quality, density and dark green color. JT-41 was developed for turf use and is adapted to use in AR, CA, GA, IL, IN, IA, ID, KS, KY, MD, MN, MO, MS, NE, NJ, NM, NC, PA, RI, SD, TN, TX, UT, VA, WA, and WI. JT-41 is recommended for sports fields, home lawns, parks, and golf course out-of-play areas where tall fescue is suitable for turf. It can be grown in full sun or moderate shade.

4. Growth & Morphology	Plant Height (cm)		Flagleaf Height (cm)		Flagleaf Length (cm)	
	2008		2008		2008	
	Connell WA	Post Falls ID	Connell WA	Post Falls ID	Connell WA	Post Falls ID
Traits						
JT-41	85.6	77.1	50.4	41.8	10.1	7.5
Pixie	84.5	91.4	47.8	51.7	11.0	9.7
Coronado	85.8	85.5	49.7	49.9	12.1	9.6
KY-31	95.2	110.6	57.2	63.4	13.4	12.2
LSD (.05)	4.3	4.5	4.0	3.87	1.8	1.23
CV %	12.8	14.8	20.2	20.5	34.8	36.0

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

Variants to be expected and frequency: Less than 5% variants with reduced seedhead initiation, maturity earlier or later or larger plant size.

5. Turf Use	Turf Quality	Brown Patch	Density	Color
	2007 Schedule A	AVG 2007	Fall 2007	AVG 2007
a) JT-41	6.0	6.1	7.7	7.1
Kentucky 31	3.9	6.7	6.5	3.9
3 <sup>rd</sup> Millennium	6.4	6.6	8.0	6.8
LSD (.05)	0.2	0.9	0.6	0.3
CV %	9.3	16.5	10.4	10.2

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

A: Schedule A quality was rated in AR1, CA3, KY1, MD1, MN1, MS1, NC1, NE1, NJ2, NM1, PA1, TX1, VA1, and WA3. Color was rated in AR1, GA1, IL1, IN1, KY1, MN1, MO1, MS1, NC1, NE1, NJ2, NM1, PA1, RI1, TN1, TX1, UT1, VA1, WA3, and WI1. Density was rated in AR1, GA1, NE1, TX1, and WA3. Brown patch was rated in KS2, NJ2, and VA1.

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.

7. Certified seed is expected to be sold in 2009. No PVP is being applied for.



## JT-42

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreb.  
 Experimental designation (s): JT-42  
 Date submitted: December 12, 2008

2. JT-42 was developed from a polycross of 17 plants in a breeding program initiated in 1987. The maternal parentage of JT-42 derives from: 53% Quest, 23.5% Plantation, and 23.5% Scorpion. In May 2002, 40 plants selected from Quest progenies, 10 plants selected from Plantation progenies, and 10 plants selected from Scorpion progenies were planted in an isolated block in a Post Falls nursery. Before anthesis in 2003, 43 plants were removed from the block. The remaining 17 plants were individually harvested and near equal amounts of seed were bulked as 03-8002 and planted in turf trials in MD, OH, ID, and CA. In 2005, plugs were pulled from the 03-8002 turf plots in Maryland and transported to Post Falls for planting. In May a 2871-plant isolation block, named JT-42 was established near Pasco, WA. Before anthesis in 2006, the block was heavily rogued removing 79% of the plants based on lighter color, coarser leaf texture and enhancing the uniformity of dominant phenotype. The remaining 618 plants were harvested as breeder seed.
3. JT-42 is an attractive turf-type tall fescue characterized as having good turf quality, density and dark green color. JT-42 has been tested in the 2006 National Turfgrass Evaluation Programs (NTEP) turf trials that were planted in AR, CA, GA, IA, IL, IN, KS, KY, MD, MN, MO, MS, NC, NE, NJ, NM, PA, RI, TN, TX, UT, VA, WA, and WI where it had good turf performance. JT-42 is recommended for sports fields, home lawns, parks, and golf course out-of-play areas. It can be grown in full sun or moderate shade.

4. Growth & Morphology	Plant Height (cm)		Flagleaf Height (cm)		Flagleaf Length (cm)	
	2008		2008		2008	
	Connell WA	Post Falls ID	Connell WA	Post Falls ID	Connell WA	Post Falls ID
Traits						
JT-42	86.1	84.8	49.4	51.7	9.5	7.6
Quest	84.9	84.7	48.2	45.4	10.08	7.8
KY-31	95.2	110.6	57.2	63.4	13.4	12.2
LSD (.05)	4.3	4.54	4.0	3.87	1.8	1.2
CV %	12.8	14.8	20.2	20.5	34.8	36.0

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

Variants to be expected and frequency: Uniformity of individual plant characteristics is 95%. 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 Quest plants. These variants are relatively infrequent in occurrence and are routinely rogued from seedstock fields during the first year of establishment.

5. Turf Use	Turf Quality	Brown Patch	Density	Color
	2007 Schedule A	AVG 2007	Fall 2007	AVG 2007
a) JT-42	6.0	5.7	7.6	6.7
Kentucky 31	3.9	6.7	6.5	3.9
3 <sup>rd</sup> Millennium	6.4	6.6	8.0	6.8
LSD (.05)	0.2	0.9	0.6	0.3
CV %	9.3	16.5	10.4	10.2

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

A: Schedule A quality was rated in AR1, CA3, KY1, MD1, MN1, MS1, NC1, NE1, NJ2, NM1, PA1, TX1, VA1, and WA3. Color was rated in AR1, GA1, IL1, IN1, KY1, MN1, MO1, MS1, NC1, NE1, NJ2, NM1, PA1, RI1, TN1, TX1, UT1, VA1, WA3, and WI1. Density was rated in AR1, GA1, NE1, TX1, and WA3. Brown patch was rated in KS2, NJ2, and VA1.

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.
7. Certified seed is expected to be sold in 2010. No PVP is being applied for.



# PNW

1. Variety name: PNW Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): BNW  
 Date submitted: December 31, 2008

2. PNW 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, Icon, Nexus, ASP6001 and Majesty II. 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 in turf plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selections for high seed yield, good turf quality, abundant tillering, fine leaf texture and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.

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

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	PNW	143.2	135.1	50.8	53.2	15.4
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	PNW	8.2	6.8	7.3	5.6	7.9	6.1	8.3
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of PNW 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 2009. PVP will be sought with the certification option.



## A-36G

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): A-36G  
 Date submitted: December 31, 2008

2. A-36G 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: ASP6005, Fiji, Majesty II and Wind Dance. 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 utilized to form a crossing block that produced the first breeder seed in 2006.

3. A-36G was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
A-36G	137.0	143.1	37.0	43.5	14.3	14.8
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	A-36G	7.7	7.0	7.6	5.8	7.4	5.8	7.6
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of A-36G 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 2009. PVP will be sought with the certification option.



## A-80

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): A-80  
 Date submitted: December 31, 2008

2. A-80 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: Laramie, Dakota, Dorado and AST-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 utilized to form a crossing block that produced the first breeder seed in 2006.

3. A-80 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	A-80	136.9	126.7	96.0	101.3	14.7
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	A-80	7.3	6.8	7.7	7.0	6.7	6.3	7.4
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”

6. A supply of A-80 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 2009. PVP will be sought with the certification option.





## BTF

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): BTF  
 Date submitted: December 31, 2008

2. BTF 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: Durana, Southern Choice, Chipper and Falcon III. 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 utilized to form a crossing block that produced the first breeder seed in 2006.
3. BTF was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
BTF	135.4	131.7	88.9	90.9	13.1	15.3
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	BTF	7.3	6.9	7.7	6.8	7.1	6.3	7.7
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”

6. A supply of BTF 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 2009. PVP will be sought with the certification option.



## HYP-08

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): HYP-08  
 Date submitted: December 31, 2008

2. HYP-08 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: Line Drive, Pennant II, Wizard, Majesty and Divine. 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 utilized to form a crossing block that produced the first breeder seed in 2006.
3. HYP-08 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
HYP-08	134.0	131.2	57.1	55.7	15.9	16.3
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
HYP-08	7.5	6.5	7.8	5.8	7.3	5.3	7.4	6.8
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of HYP-08 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 2009. PVP will be sought with the certification option.



## LCR

1. Variety name: Not Yet Named Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): LCR  
 Date submitted: December 31, 2008

2. LCR 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: Courage, Line Drive, Divine, Pennant II and ASP6004. 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 utilized to form a crossing block that produced the first breeder seed in 2006.

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

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	LCR	132.0	139.9	55.1	52.2	13.4
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	LCR	7.9	7.2	7.3	5.5	7.6	5.9	7.7
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of LCR 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 2009. PVP will be sought with the certification option.



**LEL**

1. Variety name: Not Yet Named Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): LEL  
 Date submitted: December 31, 2008

2. LEL 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: Ascend, Nexus XR, Wilmington, Fiji, Summerset, and Frontier. 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 good turf quality, high seed yield potential, fine leaf texture, abundant tillering, and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.
3. LEL was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	LEL	133.0	136.8	59.1	56.4	15.1
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	LEL	8.2	7.0	7.3	5.6	7.8	6.0	7.8
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of LEL 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 2009. PVP will be sought with the certification option.



## N-90

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): N-90  
 Date submitted: December 31, 2008

2. N-90 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: Starlet, Marksman, and Chenelle. 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 a lower mature growth height. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for a lower growth habit, abundant tillering, good turf quality and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.
3. N-90 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	N-90	135.5	132.3	69.7	74.4	8.6
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	N-90	7.1	7.0	7.2	6.8	6.9	6.2	7.2
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

**\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”**

6. A supply of N-90 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 2009. PVP will be sought with the certification option.



## N-91

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): N-91  
 Date submitted: December 31, 2008

2. N-91 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: AST9002, Reunion, and Tempest. 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 a lower mature growth height. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for a lower growth habit, abundant tillering, good turf quality and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.
3. N-91 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	N-91	135.5	130.3	67.0	70.3	7.4
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	N-91	7.1	7.2	7.5	6.5	7.2	6.5	6.6
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

**\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”**

6. A supply of N-91 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 2009. PVP will be sought with the certification option.



## N-92

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): N-92  
 Date submitted: December 31, 2008

2. N-92 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: Desire, Dorado, Renovate and AST-1. 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 a lower mature plant height. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for slower growing, abundant tillering, good turf quality and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.

3. N-92 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
N-92	137.0	133.7	64.7	68.0	8.4	9.8
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
N-92	7.2	6.6	7.8	6.8	7.7	6.8	7.4	6.7
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

**\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”**

6. A supply of N-92 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 2009. PVP will be sought with the certification option.



## N-95

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): N-95  
 Date submitted: December 31, 2008

2. N-95 was developed by McCarthy Research Farm LLC beginning with the selection of plants from nurseries at Verboort, Oregon planted with tillers from slower growing turf plots. Selected plants were derived from the following varieties: Daytona, Darlington, AST-4, Compete and Reunion. 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 a slower growth rate in turf plots. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for a lower growth habit, abundant tillering, good turf quality and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.

3. N-95 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
N-95	137.6	131.0	66.3	69.6	8.5	9.9
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
N-95	7.2	6.6	8.2	6.5	7.5	6.5	7.4	6.7
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”

6. A supply of N-95 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 2009. PVP will be sought with the certification option.





## N-96

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): N-96  
 Date submitted: December 31, 2008

2. N-96 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: Southern Choice II, AST-1, Integrity and Dakota. 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 and abundant tillering. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for good turf quality, abundant tillering, fine leaf texture and dark green color were utilized to form a crossing block that produced the first breeder seed in 2006.
3. N-96 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
	N-96	136.5	129.3	77.5	81.1	10.1
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
	N-96	7.2	7.0	7.5	6.7	7.1	6.2	7.3
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

**\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”**

6. A supply of N-96 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 2009. PVP will be sought with the certification option.



## NTW-9

1. Variety name: Not Yet Named Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): NTW-9  
 Date submitted: December 31, 2008
  
2. NTW-9 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: Divine, Halo, Majesty, Pennant III, Radiant and ASP6003. 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 utilized to form a crossing block that produced the first breeder seed in 2006.
  
3. NTW-9 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
NTW-9	137.9	132.2	64.3	65.1	16.6	17.0
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @.05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
NTW-9	7.8	6.9	7.8	6.1	7.3	5.6	8.2	7.2
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of NTW-9 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 2009. PVP will be sought with the certification option.



## TY-454

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): TY-454  
 Date submitted: December 31, 2008

2. TY-454 was developed by McCarthy Research Farm LLC beginning with the selection of plants from nurseries at Verboort, Oregon. Selected plants were derived from the following varieties: Hudson, Falcon II, Renegade II, Piedmont and Desire. Plants were grown as spaced plants in an isolated nursery at MRF near Verboort, Oregon where they were screened for dark green color, fine leaves, abundant tillering and high seed yield. Turf performance was evaluated using plots at Verboort, Oregon and Lewisburg Pennsylvania. Subsequently, three cycles of selection for abundant tillering, good turf quality, dark green color and high seed yield were utilized to form a crossing block that produced the first breeder seed in 2006.

3. TY-454 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
TY-454	132.1	125.7	104.9	110.0	15.2	17.8
K-31	128.2	117.7	116.0	122.1	14.6	18.5
Silverado	135.5	128.6	73.1	76.5	11.4	13.3
Bonanza	136.9	126.6	95.1	97.3	17.2	19.2
Bonsai	141.3	136.5	66.8	71.2	7.0	10.8
SE	2.1	2.9	3.4	2.3	0.8	1.1
LSD @ 0.05	4.4	5.9	7.0	4.8	1.5	2.2

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color (1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
TY-454	7.2	6.9	7.2	7.3	6.8	6.0	6.9	6.2
Bonanza	3.4	3.3	2.0	2.7	3.7	3.0	3.5	2.3
Bonsai	6.1	4.8	5.8	4.3	7.3	3.5	7.5	5.0
Silverado	4.8	3.8	4.5	2.7	4.8	2.7	4.3	2.8
K-31	2.4	2.4	2.0	1.8	1.7	1.8	1.3	1.8
SE	0.41	0.36	0.62	0.57	0.42	0.73	0.66	0.60
LSD	0.82	0.72	1.23	1.13	0.83	1.45	1.31	1.19

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture  
 Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

**\*\* ANY REFERENCE IN THIS APPLICATION TO “K-31” SHOULD BE “Kentucky 31”**

6. A supply of TY-454 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 2009. PVP will be sought with the certification option.



## VB 99

1. Variety name: Not Yet Named Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne L.  
 Experimental designation (s): VB 99  
 Date submitted: December 31, 2008

2. VB 99 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: Pennant II, Gallery, Splendid, Wizard II and Nexus ND. 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 utilized to form a crossing block that produced the first breeder seed in 2006.

3. VB 99 was tested for turf use in two locations in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date – Julian Days Verboort, Oregon		Plant Height (cm) Verboort, Oregon		Flag Leaf Length (cm) Verboort, Oregon	
	2007	2008	2007	2008	2007	2008
VB 99	147.9	134.6	43.0	48.9	13.7	14.2
Linn	127.2	116.1	76.1	74.0	19.4	18.8
Pinnacle	138.0	125.0	45.1	58.9	13.6	17.5
Manhattan II	135.8	143.2	60.4	56.7	19.8	19.2
Elka	155.1	148.2	37.0	43.5	14.3	14.8
SE	2.2	1.5	3.8	3.0	1.4	1.7
LSD @ .05	4.5	3.2	7.9	6.2	2.9	3.5

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

5. Turf Use	Turf Quality (1-9) 2008		Genetic Color ( 1-9) 2008		Density (1-9) 2008		Texture (1-9) 2008	
	OR	PA	OR	PA	OR	PA	OR	PA
VB 99	7.8	7.1	7.5	5.5	7.2	5.6	8.0	7.0
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
SE	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5
LSD @ 0.05	0.8	0.8	1.0	0.9	0.9	0.9	0.9	1.0

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture

Trial Locations: Verboort, Oregon & Lewisburg, Pennsylvania

6. A supply of VB 99 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 2009. PVP will be sought with the certification option.



## Pedigree

1. Variety name: Pedigree Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1199  
 Date submitted: December 15, 2008
  
2. Pedigree was developed by NexGen Turf Research, LLC. The germplasm used to develop Pedigree was obtained from Rutgers University and trace to plants selected from Apache, Arid, Mini-Mustang, Gazelle, Rebel and ecotypes collected from GA, KY and NJ. The selected progeny lines were screened for turf quality, genetic color, establishment and brown patch resistance (*Rhizoctonia solani*). The progeny with poor turf performance or disease susceptibility were removed. The remaining lines were harvested in bulk. This seed was used to establish plants in the greenhouse for root selections. The 48 plants with the deepest root mass were selected and the seed was harvested by progeny. A progeny turf trial was established near Salem, NJ. An isolated crossing block was also established by progeny line. The progeny with poor turf performance or disease susceptibility were removed from the crossing block. The remaining lines were harvested in bulk. Breeder seed was produced in 2005.
  
3. Pedigree has been tested for turf quality under lawn conditions near Fayetteville, AR, Camarillo, CA, Salem, NJ, Rolesville, NC, Urbana, IL, Knoxville, TN, and Lexington, KY. The data indicates that Pedigree is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1,)		Mature Plant Height – cm		Panicle Length - cm	
	Albany, Oregon		Albany, Oregon		Albany, Oregon	
	2007	2008	2007	2008	2007	2008
Pedigree	61.67	58.00	100.80	107.50	74.30	72.63
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch (Rhizoctonia solani)	
	Salem, NJ		Albany, OR		Albany, OR		Adelphia, NJ	
	2006	2007	2007	2008	2007	2008	2006	2007
Pedigree	6.17	5.60	6.05	6.65	6.30	6.05	5.56	5.00
Rebel IV			5.90	6.95	6.70	6.35		
Titanium			5.35	6.40	6.70	5.85		
Falcon IV	5.93	5.33	5.85	6.60	6.05	6.05	6.00	5.33
Houndog IV	5.40	5.70					4.78	5.00
Grande II	5.63	5.30					5.00	4.33
Tar Heel II	5.47	4.93					5.00	4.33
KY-31	4.37	3.87	3.45	4.20	4.60	4.60	3.56	3.67
LSD (.05)	0.51	0.55	0.37	0.48	0.56	0.40	0.85	1.05
C.V.	6.66	7.69	3.71	4.41	5.27	4.05	12.93	15.30

● Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.

\* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

6. Pedigree 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 Pedigree is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.



# Skyline

1. Variety name: Skyline Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1235  
 Date submitted: December 15, 2008

2. Skyline was developed from the cultivars Lexington (44%) and SR 8550 (56%). The selection cycle began with a turf trial planted in Fayetteville, Arkansas. The trial contained the parents of Skyline. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors were returned to Oregon and a cycle of recurrent phenotypic selection followed. Breeder seed was declared in 2005.

3. Skyline has been tested for turf quality under turf conditions near Fayetteville, AR, Camarillo, CA, Salem, NJ, Rolesville, NC, Urbana, IL, Knoxville, TN, and Lexington, KY. The data indicates that Skyline is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1), Albany, Oregon		Mature Plant Height – cm Albany, Oregon		Panicle Length - cm Albany, Oregon	
	Traits		2007 2008		2007 2008	
	2007	2008	2007	2008	2007	2008
Skyline	63.33	61.00	96.17	107.07	71.60	76.43
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch (Rhizoctonia solani) Adelphia, NJ	
	Salem, NJ		Albany, OR		Albany, OR		Adelphia, NJ	
	2006	2007	2007	2008	2007	2008	2006	2007
Skyline	5.87	5.17	6.10	6.65	6.50	5.80	5.55	4.33
Rebel IV			5.90	6.95	6.70	6.35		
Titanium			5.35	6.40	6.70	5.85		
Falcon IV	5.93	5.33	5.85	6.60	6.05	6.05	6.00	5.33
Hounddog IV	5.40	5.70					4.78	5.00
Grande II	5.63	5.30					5.00	4.33
Tar Heel II	5.47	4.93					5.00	4.33
KY-31	4.37	3.87	3.45	4.20	4.60	4.60	3.56	3.67
LSD (.05)	0.51	0.55	0.37	0.48	0.56	0.40	0.85	1.05
C.V.	6.66	7.69	3.71	4.41	5.27	4.05	12.93	15.30

● Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.  
 \* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

6. Skyline 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 Skyline is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.



# ATF1112

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1112  
 Date submitted: December 15, 2008

2. ATF1112 was developed by NexGen Turf Research, LLC beginning with a turf trial planted in Fayetteville, Arkansas. The trial contained the cultivars Rebel Exeda and 2<sup>nd</sup> Millennium. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors were returned to Oregon and placed in an isolated crossing block in a random complete design. A cycle of recurrent phenotypic selection for crown density, genetic color and leaf texture followed. Breeder seed was declared in 2005.

3. ATF1112 has been tested for turf quality under lawn conditions near Fayetteville, AR and Albany, OR. The data indicates that ATF1112 is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1.)		Mature Plant Height – cm		Panicle Length - cm	
	Albany, Oregon		Albany, Oregon		Albany, Oregon	
	2007	2008	2007	2008	2007	2008
ATF1112	64.00	66.67	103.07	113.23	76.53	74.67
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch‡ (Rhizoctonia solani)	
	Albany, OR		Albany, OR		Albany, OR		Fayetteville, AR	
	2007	2008	2007	2008	2007	2008	2007	2008
ATF1112	6.10	6.30	5.70	6.15	6.40	5.80	18.67	25.00
Rebel IV	6.30	6.85	5.90	6.95	6.70	6.35		
Titanium	5.70	6.30	5.35	6.40	6.70	5.85		
Falcon IV	6.00	6.60	5.85	6.60	6.05	6.05	13.33	24.17
Sixpoint							20.17	16.67
Finelawn Elite							18.50	20.83
KY-31	3.00	4.20	3.45	4.20	4.60	4.60		
LSD (.05)	0.40	0.42	0.37	0.48	0.56	0.40	18.85	9.44
C.V.	4.03	3.88	3.71	4.41	5.27	4.05	74.82	29.66

● Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.

\* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

‡ Scale used to report traits (if appropriate): 1-100 scale; 1 = most disease resistant.

6. ATF1112 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 ATF1112 is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.



# ATF1236

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1236  
 Date submitted: December 15, 2008

2. ATF1236 was developed from the cultivars Forte' (38%) and SR 8550 (62%). The selection cycle began with a turf trial planted in Fayetteville, Arkansas. The trial contained the parents of ATF1236. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors were returned to Oregon and a cycle of recurrent phenotypic selection followed. Breeder seed was declared in 2005.

3. ATF1236 has been tested for turf quality under lawn conditions near Fayetteville, AR, Camarillo, CA, Salem, NJ, Rolesville, NC, Urbana, IL, Knoxville, TN, and Lexington, KY. The data indicates that ATF1236 is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1), Albany, Oregon		Mature Plant Height – cm Albany, Oregon		Panicle Length - cm Albany, Oregon	
	Traits		2007	2008	2007	2008
	ATF1236	64.33	64.00	100.53	110.27	76.60
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch (Rhizoctonia solani)	
	Salem, NJ		Albany, OR		Albany, OR		Adelphia, NJ	
	2006	2007	2007	2008	2007	2008	2006	2007
ATF1236	5.57	5.30	6.25	6.75	6.20	5.75	4.89	5.00
Rebel IV			5.90	6.95	6.70	6.35		
Titanium			5.35	6.40	6.70	5.85		
Falcon IV	5.93	5.33	5.85	6.60	6.05	6.05	6.00	5.33
Hounddog IV	5.40	5.70					4.78	5.00
Grande II	5.63	5.30					5.00	4.33
Tar Heel II	5.47	4.93					5.00	4.33
KY-31	4.37	3.87	3.45	4.20	4.60	4.60	3.56	3.67
LSD (.05)	0.51	0.55	0.37	0.48	0.56	0.40	0.85	1.05
C.V.	6.66	7.69	3.71	4.41	5.27	4.05	12.93	15.30

● Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.  
 \* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

6. ATF1236 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 ATF1236 is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.





# ATF1301

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1301  
 Date submitted: December 15, 2008

2. ATF1301 was developed by NexGen Turf Research, LLC beginning with a turf trial planted in Griffin, GA. The trial contained the progenitors of ATF1301. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors were returned to Georgia for continued stress under turf conditions followed by two cycles of recurrent phenotypic selection. Selections were made on spaced plants followed by turf trials in Fayetteville, AR and Salem, NJ. Breeder seed was declared in 2006.

3. ATF1301 has been tested for turf quality under lawn conditions near Fayetteville, AR and Albany, OR. The data indicates that ATF1301 is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1.)		Mature Plant Height – cm		Panicle Length - cm	
	Albany, Oregon		Albany, Oregon		Albany, Oregon	
Traits	2007	2008	2007	2008	2007	2008
ATF1301	64.67	62.33	101.43	110.03	73.30	75.70
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch‡ (Rhizoctonia solani)	
	Albany, OR		Albany, OR		Albany, OR		Fayetteville, AR	
	2007	2008	200	2008	2007	2008	2007	2008
<i>ATF1301</i>	6.35	6.65	6.30	7.00	6.80	6.00	9.17	20.83
<i>Rebel IV</i>	6.30	6.85	5.90	6.95	6.70	6.35		
<i>Titanium</i>	5.70	6.30	5.35	6.40	6.70	5.85		
<i>Falcon IV</i>	6.00	6.60	5.85	6.60	6.05	6.30	13.33	24.17
<i>Sixpoint</i>							20.17	16.67
<i>Finelawn Elite</i>							18.50	20.83
<i>KY-31</i>	3.00	4.20	3.45	4.20	4.60	4.60		
<i>LSD (.05)</i>	0.40	0.42	0.37	0.48	0.56	0.40	18.85	9.44
<i>C.V.</i>	4.03	3.88	3.71	4.41	5.27	4.05	74.82	29.66

● Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.

\* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

‡ Scale used to report traits (if appropriate): 1-100 scale; 1 = most disease resistant.

6. ATF1301 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 ATF1301 is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.



# ATF1327

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1327  
 Date submitted: December 15, 2008

2. ATF1327 was developed by NexGen Turf Research, LLC. The parental germplasm traces to the cultivars Cortez (31%), Ninja (46%) and Regiment (23%). ATF1327 was developed using cycles of phenotypic selections followed by turf selections in Salem, NJ and Fayetteville, AR. Turf trials at this location are subjected to multiple stresses (heat, drought, disease). Survivors were returned to Oregon and re-combined from the two locations. Breeder seed was declared in 2006.
3. ATF1327 has been tested for turf quality under turf conditions near Fayetteville, AR, and Albany, OR. The data indicates that ATF1327 is suitable for turf use in these areas.

4. Growth & Morphology	Heading Date (days after March 1), Albany, Oregon		Mature Plant Height – cm Albany, Oregon		Panicle Length - cm Albany, Oregon	
	2007	2008	2007	2008	2007	2008
ATF1327	63.67	64.00	99.87	110.03	75.07	74.63
Crewcut	65.00	65.00	108.73	118.93	78.90	79.57
Rebel II	61.67	64.00	118.17	127.50	86.90	84.13
KY-31	61.33	59.33	134.23	148.63	92.10	89.37
LSD (.05)	1.93	2.96	7.06	5.64	4.57	5.57
C.V.	4.30	5.52	4.96	3.08	4.37	4.45

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

5. Turf Use	Turf Quality*		Genetic Color *		Turf Density*		Brown Patch‡ (Rhizoctonia solani) Fayetteville, AR	
	Albany, OR		Albany, OR		Albany, OR		Fayetteville, AR	
	2007	2008	200	2008	2007	2008	2007	2008
ATF1327	6.25	6.10	6.00	6.45	6.75	6.05	15.00	20.83
Rebel IV	6.30	6.85	5.90	6.95	6.70	6.35		
Titanium	5.70	6.30	5.35	6.40	6.70	5.85		
Falcon IV	6.00	6.60	5.85	6.60	6.05	6.05	13.33	24.17
Sixpoint							20.17	16.67
Finelawn Elite							18.50	20.83
KY-31	3.00	4.20	3.45	4.20	4.60	4.60		
LSD (.05)	0.40	0.42	0.37	0.48	0.56	0.40	18.85	9.44
C.V.	4.03	3.88	3.71	4.41	5.27	4.05	74.82	29.66

●Scale used to report traits (if appropriate): 1-9 scale; 9 = darker, most dense, highest coverage, highest quality, most disease resistant.

\* Genetic color and turf density data collected using digital image analysis (Karcher, D.E. et. al. 2005, Objective Evaluation of Turf Quality. 2005 Annual Meeting Abstracts [ASA/CSSA/SSA]).

‡Scale used to report traits (if appropriate): 1-100 scale; 1 = most disease resistant.

6. ATF1327 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 ATF1327 is accepted by official seed certifying agencies, Certified seed will first be offered for sale September, 2009. At this time Plant Variety Protection (PVP) will not be sought.



## Stetson II

1. Variety name: Stetson II Kind: Tall Fescue  
 Genus: Festuca Species: Arundinacea  
 Experimental designation (s): NA-SS, SS-TF, SS  
 Date submitted: January 12, 2008

2. Stetson II tall fescue has been developed by Novel AG, Inc. and is based on five populations. The plants used in the development of Stetson II were identified by dark green color, erect appearance, elite seedhead development, high floret fertility, apparent freedom from stem rust and leaf spot diseases, and fine, dense leaf development. Seed harvested was declared the Breeder seed of Stetson II tall fescue, July of 2006.

3. Stetson II has been developed for use as a turfgrass and has been tested in St. Paul, Oregon during the years of 2007 and 2008 and has shown good adaptation.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Flag Leaf Length(cm)	
	St. Paul, OR		St. Paul, OR		St. Paul, OR	
Traits	2007	2008	2007	2008	2007	2008
<i>Stetson II</i>	May 15	May 20	75.8	90.9	10.4	10.0
<i>Bonsai</i>	May 20	May 24	78.1	88.7	12.2	13.7
<i>Silverado</i>	May 17	May 23	84.0	86.1	12.2	13.7
<i>Bravo</i>	May 12	May 18	117.1	119.3	14.9	16.2
<i>K-31</i>	May 4	May 14	126.3	129.7	19.2	19.1
LSD (.05)	1.4 days	1.7 days	3.7	3.4	2.3	2.1
S.E.	.98	1.10	1.9	1.7	1.2	1.1

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

Variants to be expected and frequency: 1% of the plants beyond breeder seed were taller or lighter

5. Turf Use	Turf Quality		Genetic Color (1-9,9=Dark)		Turf Density (1-9, 9=Dense)		Leaf Texture (1-9, 9=Fine)	
	St. Paul, OR		St. Paul, OR		St. Paul, OR		St. Paul, OR	
a)	2007	2008	2007	2008	2007	2008	2007	2008
<i>Stetson II</i>	6.8	6.5	7.3	7	6.7	6	6.7	7
<i>Padre</i>	6	6.1	6.7	7	6.3	6.7	6.7	7
<i>Bravo</i>	4.3	4	4.3	4.7	4.7	4	4.7	5
<i>Rebel II</i>	3	2.8	3.4	3.8	2	2.3	2.3	3.7
<i>KY-31</i>	2.4	2.2	1.6	2	1.7	2	2	2.3
LSD (.05)	1.3	1.4	.8	.9	.9	1.2	2.6	2.4
S.E.	.6	1	.4	.7	.5	1	1.8	1.4

●Scale used to report traits (if appropriate): 1-9, 9=best, darkest, most dense, finest

6. Breeder seed of Stetson II was first produced in 2006. Breeder seed of Stetson II 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 2009. Plant Variety Protection has not been applied for.



# StingRay

1. Variety name: StingRay Kind: Tall Fescue  
 Genus: Festuca Species: Arundinacea  
 Experimental designation (s): NA-SS, SS-TF, SS  
 Date submitted: January 12, 2008
2. StingRay tall fescue has been developed by Novel AG, Inc. and is based on six populations. The plants used in the development of StingRay were identified by dark green color, erect appearance, elite seedhead development, high floret fertility, apparent freedom from stem rust and leaf spot diseases, and fine, dense leaf development. Seed harvested was declared the Breeder seed of StingRay tall fescue, July of 2006.
3. StingRay has been developed for use as a turfgrass and has been tested in St. Paul, Oregon during the years of 2007 and 2008 and has shown good adaptation.

4. Growth & Morphology Traits	Heading Date St. Paul, OR		Plant Height (cm) St. Paul, OR		Flag Leaf Length(cm) St. Paul, OR	
	2007	2008	2007	2008	2007	2008
	<i>StingRay</i>	May 15	May 20	98.7	98.9	11.5
<i>Bonsai</i>	May 20	May 24	78.1	88.7	12.2	13.7
<i>Silverado</i>	May 17	May 23	84.0	86.1	12.2	13.7
<i>Bravo</i>	May 12	May 18	117.1	119.3	14.9	16.2
<i>K-31</i>	May 4	May 14	126.3	129.7	19.2	19.1
LSD (.05)	1.4 days	1.7 days	3.7	3.4	2.3	2.1
S.E.	.98	1.10	1.9	1.7	1.2	1.1

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

Variants to be expected and frequency: 1% of the plants beyond breeder seed were taller or lighter

5. Turf Use	Turf Quality		Genetic Color (1-9,9=Dark)		Turf Density (1-9, 9=Dense)		Leaf Texture (1-9, 9=Fine)	
	St. Paul, OR		St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2007	2008	2007	2008	2007	2008	2007	2008
<i>StingRay</i>	6/5	6/1	7.3	6.7	6	6	6.3	6.7
<i>Padre</i>	6	6.1	6.7	7	6.3	6.7	6.7	7
<i>Bravo</i>	4.3	4	4.3	4.7	4.7	4	4.7	5
<i>Rebel II</i>	3	2.8	3.4	3.8	2	2.3	2.3	3.7
<i>KY-31</i>	2.4	2.2	1.6	2	1.7	2	2	2.3
LSD (.05)	1.3	1.4	.8	.9	.9	1.2	2.6	2.4
S.E.	.6	1	.4	.7	.5	1	1.8	1.4

●Scale used to report traits (if appropriate): 1-9, 9=best, darkest, most dense, finest

6. Breeder seed of Stingray was first produced in 2006. Breeder seed of Stingray 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 2009. Plant Variety Protection has not been applied for.



# Havana

1. Variety name: Havana Kind: Rough bluegrass  
 Genus: Poa Species: trivialis  
 Experimental designation (s): RB 3-99  
 Date submitted: December 16, 2008

2. **Havana** was developed by Pickseed USA, Inc. (PS) beginning with the open pollination of 20 maternal progeny families in western Oregon. Progenies used in the development of **Havana** were derived from six commercially available cultivar sources and two experimental lines from PS. The objective for creating **Havana** was to develop an improved rough bluegrass cultivar derived from families having possessed adequate plant growth under short day lengths, and early spring reproductive floral initiation. Breeder seed of **Havana** was first produced in 2005.

3. **Havana** has been tested for turf quality and several component characteristics of turf quality in two western Oregon sites. It has shown adaptation to those climatic conditions, and could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Spike Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2007	2008	2007	2008	2007	2008
Traits						
<i>Havana</i>	May 13	May 12	45.4	73.8	12.2	14.3
<i>Laser</i>	May 12	May 11	47.6	77.6	13.3	14.4
<i>Darkhorse</i>	May 10	May 9	53.8	82.1	15.5	15.7
<i>Colt</i>	May 8	May 6	59.2	86.2	16.5	18.1
LSD (.05)	3.0	3.0	4.5	8.6	1.1	3.1
S.E.	1.4	1.4	2.1	4.1	0.5	1.5

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

Variants to be expected and frequency: None

5. Turf Use	Turf Quality		Foliage Color		Foliage Texture		Density	
	2007		2007		2007		2007	
	A	B	A	B	A	B	A	B
a)								
b)								
<i>Havana</i>	5.9	5.9	6.6	5.9	6.5	8.0	7.3	8.5
<i>Laser</i>	5.3	5.3	5.9	5.3	6.0	7.0	6.5	8.3
<i>Darkhorse</i>	5.6	5.3	5.6	5.3	6.5	7.0	6.3	8.3
<i>Colt</i>	4.5	5.1	4.8	5.1	5.3	6.8	7.0	8.3
LSD (.05)	0.6	0.7	0.8	0.7	1.8	0.8	1.5	0.6
S.E.	0.2	0.3	0.3	0.3	0.7	0.3	0.6	0.3

•Scale used to report traits (if appropriate): 1-9 with 9 being ideal quality, darkest green color, finest leaf texture, and best turf density.

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

\*\*If necessary, identify locations in line b) by the following key A: Forest Grove, OR B: Albany, OR

6. A record sample of original Breeder seed (produced in 2005) and any further Breeder seed production will be maintained by 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 and Certified class fields will be limited to four harvests. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. Certified seed will first be offered for sale August 2009. It is intended that P.V.P. will be sought for *Havana* without exercising the certification option.



## 04-1 Lh

1. Variety name: \_\_\_\_\_ Kind: Intermediate Ryegrass  
 Genus: Lolium Species: hybridum  
 Experimental designation (s): 04-1 Lh  
 Date submitted: December 16, 2008

2. **04-1 Lh** is an advanced generation synthetic variety of intermediate ryegrass. The variety originated from the interpollination of 12 parents at Pickseed USA, Inc. (PS), Albany, OR. Two parents were selected from *Transist 2400*. Four parents were selected from *Transist 2200*. Three parents were selected from a recurrent breeding line of PS designated as *Pick HA*. Three parents were selected from progeny originating from field crosses involving individuals from *Transist*, *Transtar*, *Transist 2200*, *Interim*, *Transeze*, *Marshall*, *Riviera II*, *Hurricane*, *Rustmaster*, *Fiesta II*, and *Citation II*. Each parent of **04-1 Lh** exhibited tall, erect growth habit and medium fine textured foliage of medium dark green color. The 12 parents also showed good seed production potential and were similar in anthesis. Progeny resulting from the open pollination of the selected parents of **04-1 Lh** were advanced to a syn 2 generation. That seed was designated as breeder seed, first produced in July 2005.
3. 04-1 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	
	2007	2008	2007	2008	2007	2008
Traits						
<i>04-1 Lh</i>	May 16	May 14	64.4	80.6	21.4	21.9
<i>Transist</i>	May 18	May 17	71.4	82.5	23.8	22.3
<i>Transist 2200</i>	May 18	May 17	73.7	82.0	23.9	23.0
<i>Transeze</i>	May 18	May 17	70.8	84.0	23.1	19.5
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 X Plants in rows/solid seeding \_\_\_\_\_  
 Variants to be expected and frequency: None

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	2006	2007
<i>04-1 Lh</i>	4.0	5.5	4.0	5.7	5.5	5.0	5.5	5.0
<i>Transist</i>	4.0	4.5	1.5	4.4	5.0	4.5	3.5	4.5
<i>Transist 2400</i>	4.0	5.7	5.0	5.9	5.5	5.0	6.5	6.0
<i>Froghair</i>	1.5	2.7	1.0	3.0	3.0	3.0	3.0	3.5
<i>Gulf</i>	2.0	2.4	1.5	2.9	3.0	3.0	2.5	4.5
<i>Transeze</i>	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 *04-1 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. It is intended that P.V.P. will be sought without exercising the certification option.



## Pick EJ

1. Variety name: \_\_\_\_\_ Kind: Perennial ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): Pick EJ  
 Date submitted: December 16, 2008

2. **Pick EJ** is an advanced generation synthetic variety of perennial ryegrass based on two original polycrosses involving 47 parents. The 47 parents were selected from spaced planted field nurseries at Pickseed USA, Inc. (PS), Albany, OR. The parents were brought together for interpollination in May 2005. Parents were selected from the following varieties and PS experimental lines: *Fiesta 4*, *Sunshine II*, *Dasher 3*, *Firebolt*, *Pleasure Supreme*, *Pick SD*, *02-R Lp*, *04-7 Lp*, and *04-14 Lp*. All parents were selected on the basis of dark green foliage color, very fine leaf texture, showing early to medium reproductive heading, and exhibiting high seed production potential. Progeny seeds resulting from the polycross were grown in the field as spaced planted individuals of half-sib families. In the spring of 2006, it was determined the phenotype and the flowering date were very similar among individuals within and between families. A bulk harvest was conducted resulting in the production of breeder seed of **Pick EJ** in July 2006.
3. **Pick EJ** has been tested for turf use at Salem, NJ. It has shown adaptation to climatic conditions in southern NJ. The variety will be made available for sale in climates represented by that locality.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Spike Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2007	2008	2007	2008	2007	2008
<i>Pick EJ</i>	May 23	May 24	44.0	58.6	28.6	33.7
<i>Linn</i>	May 6	May 9	66.6	69.9	41.4	41.3
<i>Pinnacle</i>	May 17	May 19	53.0	66.9	33.9	39.5
<i>Elka</i>	June 8	June 5	41.1	61.5	25.4	34.8
LSD (.05)	2	2	3.9	3.5	2.9	2.4
SE	1.1	0.7	1.9	1.7	1.4	1.2

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

Variants to be expected and frequency: None

5. Turf Use	Turf Quality		Turf Cover		Stand Density		Foliage Color	
	Salem, NJ		Salem, NJ		Salem, NJ		Salem, NJ	
	2007	2008	2007	2008	2007	2008	2007	2008
<i>Pick EJ</i>	6.5	4.7	7.7	6.6	4.0	4.0	6.3	5.7
<i>Cutter</i>	4.7	3.3	6.3	5.0	4.7	3.6	3.7	4.2
<i>Manhattan II</i>	4.5	3.3	6.5	5.7	4.7	3.7	3.2	3.3
<i>Applaud</i>	6.0	4.8	7.5	7.2	3.7	4.0	5.8	5.6
<i>Pizzazz</i>	5.2	4.8	6.8	6.8	3.0	4.4	5.2	5.5
LSD (.05)	0.6	0.5	0.5	0.6	0.7	0.7	0.5	0.4
CV%	6.6	7.8	4.5	6.2	10.8	11.1	5.8	5.2

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

6. The first breeder seed of *Pick EJ* was produced in 2006 at the research facility of PS. Foundations 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. Additional years of seed production may be approved by the breeder.
7. Certified seed production of *Pick EJ* is anticipated to be available August 2009. It is intended that P.V.P. will be sought without exercising the certification option.



# Hawman

1. Variety name: Hawman Kind: Kentucky bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): PST-102-68  
 Date submitted: December 2008

2. Hawman was developed by Pure-Seed Testing, Inc. and originated as a single apomictic hybrid selected from 109-308, a sexual hybrid tracing to Blue Star, open pollinated in a green house in Hubbard, Oregon. In summer 2002, a new hybrid plant was selected from those plants for its excellent seed yield potential, stripe rust and leaf spot resistance, and morphological differences from 109-308. This was planted in an apomictic grow-out and breeder seed was harvested summer 2003.
3. Hawman was tested for turf use in western Oregon and California, central North Carolina and eastern New Jersey. 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 Width	
	2007	2008	2007	2008	2007	2008
Hawman	112	127	41.6	55.5	3.8	3.3
Blue Star	115	129	42.9	39.6	2.6	2.2
Unique	130	135	45.5	36.7	2.2	2.8
Midnight	140	141	38.4	38.6	2.5	2.8
LSD (.05)	3 days	2 days	4.0	2.3	0.4	0.2

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

Variants to be expected and frequency: Any aberrant plants observed in a Hawman Kentucky bluegrass field have been similar in appearance but shorter plants with reduced seed head with an occurrence of 5% or less.

5. Turf Use	Turf Quality				Drought (Visual Rating)		Winter Color		Leaf Spot	
	a) A		B		A	B	A	B	A	B
	2005	2006	2006	2007	8-18-07	7-24-07	2005	2005	3-20-06	4-18-06
Hawman	5.1	5.0	5.2	5.8	5.7	5.7	5.0	4.3	5.3	7.7
Midnight	6.4	5.9	5.3	5.2	4.7	4.0	6.0	4.7	5.0	8.0
Moonlight	5.3	5.7	4.9	6.0	4.0	5.7	4.0	7.3	6.3	7.0
Unique	6.3	5.7	---	---	5.3	---	3.7	5.7	4.7	7.3
Blue Star	4.8	4.8	3.0	3.7	2.7	3.0	5.7	3.3	4.3	6.7
LSD (.05)	1.2	0.8	1.0	1.2	2.0	2.3	1.1	1.6	1.5	1.8

•Scale used to report traits (if appropriate): Turf Quality: 1-9: 9=ideal; Drought: 1-9: 9=no visible drought stress; Winter Color: 1-9: 9=dark green scale; Leaf Spot: 1-9: 9=no disease.

\*If necessary, identify locations in line a) by the following key A: Hubbard, OR B: Raleigh, NC

6. Pure-Seed Testing, Inc. maintains Breeder seed in Oregon and will regenerate as necessary. Seed production of Hawman is limited to three generations of increase from Breeder seed: one each of 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 six years followed by Certified class seed for seven years. Registered class production fields may be established from Breeder or Foundation seed, and can be harvested for Registered seed for a maximum of six years followed by Certified class seed for seven years. Certified class production fields established from Foundation or Registered seed 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. Certified seed is anticipated to be available in the spring of 2009. No PVP will be sought. Variety will be entered into the Certification program.





## Defender

1. Variety name: Defender Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): 4UP or D04-UP  
 Date submitted: January 14, 2009
2. Defender (4UP) perennial ryegrass (*Lolium perenne* L.) is a turf type perennial ryegrass selected maternal and paternal germplasm selected and developed at the Rutgers Plant Science Research and Extension Farm at Adelphia, New Jersey. Defender was selected for early maturity, high crown density, upright growth habit and improved resistance to both gray leaf spot disease (caused by *Pyricularia grisea* (Cooke) Sacc) and brown patch disease (caused by *Rhizoctonia solani* Kuhn).
3. Defender (4UP) perennial ryegrass (*Lolium perenne* L.) will be solely used for lawn and commercial turf. The variety is adapted to Oregon, New Jersey, Michigan, and Kentucky.

4. Growth & Morphology	Heading Date in Julian Date Oregon		Mature Plant Height -cm Oregon		Inflorescence Length -cm Oregon	
	2007	2008	2007	2008	2007	2008
Defender	154.7	153.0	55.0	45.5	11.3	15.3
Linn	140.1	148.0	68.8	67.8	16.6	19.7
Pinnacle	149.3	151.0	62.4	62.3	16.0	17.7
Manhattan	161.7	159.0	63.3	59.5	19.9	20.7
Pentium	151.3	151.0	53.5	56.1	13.9	14.8
LSD (.05)	2.8	4.2	12.4	9.0	2.0	4.5
Variance	1.1	1.6	12.8	9.4	8.0	16.2
Grand Mean	154.0	153.8	57.8	57.1	14.8	16.8
Lowest	140.1	148.0	50.8	46.9	11.3	14.4
Highest	161.7	159.0	68.8	67.8	19.9	20.7
Entries	16	16	16	16	16	16

Data collected from: Spaced single plants 15 Plants in rows/solid seeding

Variants to be expected and frequency: Any aberrant plants observed in a Defender perennial ryegrass field have been similar in appearance as shorter plants with an occurrence of 2% or less.

5. Turf Use	Turf Quality		Turf Density Fall		Gray Leaf Spot		Leaf Texture	
	Lexington, KY		East Lansing, MI		2005		East Lansing, MI	
a)								
b)	2006	2007	2005	2006	A	B	2006	2007
Defender	6.0	5.0	6.3	6.7	9.0	9.0	5.7	7.7
Linn	1.1	1.1	3.0	3.0	4.3	1.0	3.0	4.0
Pinnacle	3.1	3.8	3.3	3.0	5.7	1.0	4.3	7.0
Inspire	3.1	5.0	4.7	4.3	9.0	3.0	5.7	7.0
Pentium	4.6	4.1	4.0	3.7	8.3	2.0	5.0	7.0
LSD (.05)	1.7	1.3	1.7	1.8	1.7	1.5	1.7	8.2
Variance	21.6	14.7	18.5	20.7	12.3	20.2	19.9	7.5
Grand Mean	4.9	5.1	5.6	5.3	8.6	4.7	5.3	7.5
Lowest	1.1	1.1	3.0	3.0	4.3	1.0	3.0	4.0
Highest	7.3	7.2	7.7	7.0	9.0	9.0	7.0	8.3
Entries	119	118	119	119	119	119	119	119

●Scale used to report traits (if appropriate): Turf quality, where 9=ideal; Turf density in fall, where 9=maximum density; Gray leaf spot, where 9=no disease; and Leaf texture, where 9=very fine leaf texture

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

\*\*If necessary, identify locations in line b) by the following key A: West Lafayette, IN B: N. Brunswick, NJ

6. The Scotts Company produced seed from the parent clones of Defender 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 seed in Oregon and will regenerate as necessary. Seed production of Defender 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 2003.

7. Defender perennial ryegrass will be first available for certification by official seed certifying agencies in the summer of 2009. Defender will not be submitted for plant variety protection.



# Shoreline

1. Variety name: Shoreline Kind: Slender creeping red fescue  
 Genus: Festuca Species: rubra spp. litoralis  
 Experimental designation (s): SRX 55R or SRX 55SLCE  
 Date submitted: December 17, 2008

2. **Shoreline** was developed by Seed Research of Oregon (SRO) from a bulk of progeny seed originating from nine years of recurrent selection and recombination of half-sib families from four parental sources. During the development cycles, progeny plants were advanced if they displayed dark green color, general disease tolerance, potentially good stress and wear tolerance, seed yield, heat tolerance, and salt tolerance. Breeder seed was first harvested in 2003 at Corvallis, OR
3. **Shoreline** has been tested for turf quality, and several component characteristics of turf quality in central Illinois, northern Kentucky, southern Wisconsin, and western Oregon. It has shown adaptation to those climatic conditions and could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height (cm) Albany, OR		Panicle Length (cm) Albany, OR	
	2005	2006	2005	2006	2005	2006
Traits						
<i>Shoreline</i>	May 4	April 30	67.4	83.8	11.2	10.9
<i>Sealink</i>	May 8	May 1	72.6	81.0	11.4	10.8
<i>Dawson</i>	May 10	April 28	72.9	85.2	13.0	13.4
<i>Barcrown</i>	May 18	May 11	73.8	75.7	11.4	10.1
<i>Merlin</i>	May 18	May 4	76.2	87.3	11.7	11.6
LSD (.05)	5	4	4.6	11.8	0.7	1.4
CV%	2	2	3.3	7.6	3.1	6.5

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

Variants to be expected and frequency: none

5. Turf Use	Turf Quality 2007		Foliage Color 2007		Turf Cover 2007		Turf Density 2007	
	A	B	A	B	C	D	C	D
<i>Shoreline</i>	5.7	4.5	7.3	4.7	43.1	6.0	88.3	4.4
<i>Sealink</i>	5.9	3.6	7.0	6.0	59.1	6.2	71.7	5.1
<i>Dawson</i>	6.0	3.3	7.3	6.3	46.7	5.5	60.0	5.1
<i>Seabreeze GT</i>	5.7	3.9	7.0	3.3	51.4	6.2	63.3	4.9
LSD (.05)	0.5	0.7	1.2	1.7	30.5	0.3	24.5	0.4
CV%	5.8	9.9	13.2	5.8	48.4	4.0	26.5	6.5

● Scale used to report traits (if appropriate): For locations A, B, and D, 1-9 with 9 = ideal quality, darkest green color, most cover, most density. For location C, 1-100 percent scale with 100 = most green cover and most dense.

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

**If necessary, identify locations in line b) by the following key	A: Urbana, IL	C: Madison, WI
	B: Berry, KY	D: Albany, OR

6. SRO and Pickseed USA, Inc. (PS) will maintain seed stocks of *Shoreline*. Breeder seed was first produced in 2003. Additional breeder seed will be produced as needed under the supervision of SRO/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. Length of stand for seed production shall be limited to 2 years for foundation fields, 3 years for registered fields, and 5 years for fields producing certified seed. Additional years of seed production may be approved by the breeder.
7. Certified seed is anticipated to be available in spring/summer 2009. It is intended that P.V.P. will be sought without exercising the certification option.



## SR 3150

1. Variety name: SR 3150 Kind: Hard fescue  
 Genus: Festuca Species: longifolia  
 Experimental designation (s): SRX 3961  
 Date submitted: December 19, 2008

2. **SR 3150** is an advanced generation synthetic cultivar selected from the maternal progenies of 9 clones. During the development of **SR 3150**, progeny plants were advanced if they displayed dark, bright green color, general disease tolerance, potentially good seed yield, and late maturity. Breeder seed was first harvested in 1997 at Corvallis, OR.
3. **SR 3150** has been tested for turf quality and several component characteristics of turf quality in southern Maine, northern New York, southern Wisconsin, and southern Michigan. It has shown adaptation to those climatic conditions and 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	
	1998	1999	1998	1999	1998	1999
Traits						
<i>SR 3150</i>	April 26	April 18	58.7	56.5	12.0	12.8
<i>Aurora</i>	April 21	April 14	59.5	59.0	11.3	11.0
<i>Scaldis</i>	April 17	April 12	70.6	72.2	12.9	13.0
LSD (.05)	3 days	3 days	2.2	2.0	0.7	0.6
S.E.	1.1	1.0	1.0	0.9	0.4	0.3

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

Variants to be expected and frequency: None

5. Turf Use	Turf Quality 2001		Foliage Color 2001		Foliage Texture 2001		Summer Density 2001	
	A	B	B	C	B	D	B	D
<i>SR 3150</i>	6.1	5.7	6.0	6.3	6.0	8.0	7.0	7.3
<i>Reliant II</i>	6.6	5.5	6.3	6.7	5.7	7.3	6.7	8.0
<i>Oxford</i>	5.8	5.5	6.7	7.0	6.7	7.7	6.7	8.0
<i>Scaldis</i>	6.4	5.4	6.3	7.0	6.0	7.3	7.0	7.7
LSD (.05)	1.3	0.5	1.2	0.4	1.3	0.8	0.8	0.8
CV%	13.2	5.5	12.0	3.7	13.1	6.4	7.4	6.5

•Scale used to report traits (if appropriate):

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

**If necessary, identify locations in line b) by the following key	A: Orono, ME	C: Madison, WI
	B: Ithaca, NY	D: East Lansing, MI

6. Seed Research of Oregon (SRO) and Pickseed USA, Inc. (PS) will maintain seed stocks of *SR 3150*. Breeder seed was first produced in 1997. Additional breeder seed will be produced as needed under the supervision of SRO/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. Length of stand for seed production shall be limited to 2 years for foundation fields, 3 years for registered fields, and 5 years for fields producing certified seed. Additional years of seed production may be approved by the breeder.
7. Certified seed is anticipated to be available spring/summer of 2009. It is intended that P.V.P. will be sought without exercising the certification option.



## PSG RNDR

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): PSG RNDR  
 Date submitted: December 17, 2008

2. **PSG RNDR** was developed by Seed Research of Oregon (SRO) from a bulk of progeny seed originating from maternal germplasm used in the development of *Rendition*. Much of this germplasm was intercrossed with material related to *Grande*, *SR 8550*, and *SR 8560*. Once source progeny were identified, to be used for development of **PSG RNDR**, a spaced planted nursery of 945 individuals was established. After one cycle of selection, eliminating 40% of individuals, seed of 567 individuals was harvested and bulked. These individuals were uniform in plant growth to one another, had dense, dark green foliage, showed disease tolerance, and exhibited seed production potential. Breeder seed was first produced in 2006.
3. **PSG RNDR** has been tested for turf quality and several component characteristics of turf quality as a 2006 entry in the National Turfgrass Evaluation Program (NTEP). The experimental line has shown adaptation, particularly, at NTEP testing sites in northwest Arkansas, central Georgia, eastern Mississippi, and northeastern Texas. The variety could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date Albany, OR		Plant Height (cm) Albany, OR		Panicle Length (cm) Albany, OR	
	2007		2008		2007	
	2007	2008	2007	2008	2007	2008
PSG RNDR	May 16	May 11	58.2	93.4	14.9	19.4
Bonsai	May 23	May 12	61.4	88.5	11.4	17.5
Rebel II	May 15	May 8	69.5	112.0	19.2	26.2
KY-31	May 12	May 2	94.5	133.3	23.3	30.1
LSD (.05)	3 days	4 days	11.9	8.8	1.5	2.2
S.E.	1	1	5.9	4.3	0.7	1.1

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

Variants to be expected and frequency:  None

5. Turf Use	Turf Quality 2007		Foliage Color 2007		Foliage Texture 2007		Spring Density 2007	
	A B		A B		B D		C D	
	A	B	A	B	B	D	C	D
PSG RNDR	6.6	6.3	7.7	6.0	6.3	6.0	7.3	8.3
Rembrandt	6.3	6.4	7.0	6.0	6.3	6.0	8.0	7.3
Silverado	6.4	6.2	7.3	5.3	6.0	5.0	7.0	7.7
KY-31	5.1	5.1	5.0	4.0	4.0	5.0	6.3	6.0
LSD (.05)	0.9	0.6	1.4	0.6	0.6	0.9	1.5	1.6
CV%	8.7	7.7	12.7	6.0	5.7	9.6	13.1	13.9

•Scale used to report traits (if appropriate):

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

**If necessary, identify locations in line b) by the following key	A: Griffin, GA	C: Fayetteville, AR
	B: Mississippi St., MS	D: Dallas, TX

6. SRO and Pickseed USA, Inc. (PS) will maintain seed stocks of **PSG RNDR**. Breeder seed was first produced in 2006. Additional breeder seed will be produced as needed under the supervision of SRO/PS. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and registered class fields will be limited to four harvests of foundation/registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. Certified seed is anticipated to be available late summer of 2009. It is intended that P.V.P. will be sought without exercising the certification option.



# PSG TTRH

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): PSG TTRH  
 Date submitted: December 22, 2008

2. **PSG TTRH** was developed by Seed Research of Oregon (SRO) from a bulk of progeny seed originating from maternal germplasm used in the development of *Titan* and *Titan Ltd.* The maternal parental material for **PSG TTRH** was developed after two cycles of recombination and screening for stress tolerance and brown patch resistance at two Missouri locations. As these cycles of screening were accomplished, the final steps of development for **PSG TTRH** was to allow the maternal sources to be intercrossed with selected paternal sources of plants from *Grande II*, *Crewcut II*, *SR 8550*, and *Rendition*. Bulk seed of the maternal material after the intercrossing was considered the first breeder seed of **PSG TTRH**, harvested July 2006.
3. **PSG TTRH** has been tested for turf quality and several component characteristics of turf quality as a 2006 entry in the National Turfgrass Evaluation Program (NTEP). The experimental line has shown adaptation, particularly, at NTEP testing sites in northwest Arkansas, central Georgia, eastern Mississippi, and northeastern Texas. The variety could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Panicle Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2007	2008	2007	2008	2007	2008
<i>PSG TTRH</i>	May 16	May 12	61.0	92.5	16.2	20.7
<i>Bonsai</i>	May 23	May 12	61.4	88.5	11.4	17.5
<i>Rebel II</i>	May 15	May 8	69.5	112.0	19.2	26.2
<i>KY-31</i>	May 12	May 2	94.5	133.3	23.3	30.1
LSD (.05)	3 days	4 days	11.9	8.8	1.5	2.2
S.E.	1	1	5.9	4.3	0.7	1.1

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

Variants to be expected and frequency:  None

5. Turf Use	Turf Quality		Foliage Color		Foliage Texture		Spring Density	
	2007		2007		2007		2007	
	A	B	A	B	B	D	C	D
<i>PSG TTRH</i>	6.6	6.4	7.0	6.0	6.7	5.3	7.7	6.3
<i>Rembrandt</i>	6.3	6.4	7.0	6.0	6.3	6.0	8.0	7.3
<i>Silverado</i>	6.4	6.2	7.3	5.3	6.0	5.0	7.0	7.7
<i>KY-31</i>	5.1	5.1	5.0	4.0	4.0	5.0	6.3	6.0
LSD (.05)	0.9	0.6	1.4	0.6	0.6	0.9	1.5	1.6
CV%	8.7	7.7	12.7	6.0	5.7	9.6	13.1	13.9

•Scale used to report traits (if appropriate):

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

**If necessary, identify locations in line b) by the following key	A: Griffin, GA	C: Fayetteville, AR
	B: Mississippi St., MS	D: Dallas, TX

6. SRO and Pickseed USA, Inc. (PS) will maintain seed stocks of **PSG TTRH**. Breeder seed was first produced in 2006. Additional breeder seed will be produced as needed under the supervision of SRO/PS. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and registered class fields will be limited to four harvests of foundation/registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. Certified seed is anticipated to be available late summer of 2009. It is intended that P.V.P. will be sought without exercising the certification option.



# PSG TTST

1. Variety name: \_\_\_\_\_ Kind: Tall fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): PSG TTST  
 Date submitted: December 23, 2008

2. **PSG TTST** was developed by Seed Research of Oregon (SRO) from a bulk of progeny seed originating from maternal sources used in the development of *SR 8200*, *SR 8010*, *Titan Ltd.*, and two clones from Rutgers University of its *FFT* tall fescue project. The maternal parental material for **PSG TTST** was developed through a series of screening and recombination focused upon selection of genetic material which exhibited resistance from brown patch disease, rhizome expression, high seed yield potential and good turf quality. The final steps of development for **PSG TTST** were to allow progeny of eight half-sib families to intercross, and the resulting seed was bulked and considered the first breeder seed, harvested July 2006.

3. **PSG TTST** has been tested for turf quality and several component characteristics of turf quality as a 2006 entry in the National Turfgrass Evaluation Program (NTEP). The experimental line has shown adaptation, particularly, at NTEP testing sites in northwest Arkansas, central Georgia, eastern Mississippi, and northeastern Texas. The variety could be made available for sale in climates represented by those localities.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Panicle Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
	2007	2008	2007	2008	2007	2008
<i>PSG TTST</i>	May 17	May 10	61.0	97.3	18.0	21.4
<i>Bonsai</i>	May 23	May 12	61.4	88.5	11.4	17.5
<i>Rebel II</i>	May 15	May 8	69.5	112.0	19.2	26.2
<i>KY-31</i>	May 12	May 2	94.5	133.3	23.3	30.1
LSD (.05)	3 days	4 days	11.9	8.8	1.5	2.2
S.E.	1	1	5.9	4.3	0.7	1.1

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

Variants to be expected and frequency: None

5. Turf Use	Turf Quality		Foliage Color		Foliage Texture		Spring Density	
	2007		2007		2007		2007	
	A	B	A	B	B	D	C	D
<i>PSG TTST</i>	6.3	6.3	6.7	5.0	6.0	5.7	7.0	7.0
<i>Rembrandt</i>	6.3	6.4	7.0	6.0	6.3	6.0	8.0	7.3
<i>Silverado</i>	6.4	6.2	7.3	5.3	6.0	5.0	7.0	7.7
<i>KY-31</i>	5.1	5.1	5.0	4.0	4.0	5.0	6.3	6.0
LSD (.05)	0.9	0.6	1.4	0.6	0.6	0.9	1.5	1.6
CV%	8.7	7.7	12.7	6.0	5.7	9.6	13.1	13.9

•Scale used to report traits (if appropriate):

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

**If necessary, identify locations in line b) by the following key	A: Griffin, GA	C: Fayetteville, AR
	B: Mississippi St., MS	D: Dallas, TX

6. SRO and Pickseed (PS) will maintain seed stocks of **PSG TTST**. Breeder seed was first produced in 2006. Additional breeder seed will be produced as needed under the supervision of SRO/PS. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation and registered class fields will be limited to four harvests of foundation/registered production, followed by three additional harvests of certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder, or an individual designated by the breeder.

7. Certified seed is anticipated to be available late summer of 2009. It is intended that P.V.P. will be sought without exercising the certification option.



Variety Fluorescence Levels Recognized by the  
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Variety and Kind	Experimental Designation	OECD	Year	Variety
		Synonym Name <sup>1</sup>	Approved	Fluorescence Level
02.0384 Perennial ryegrass <sup>2</sup>	2.0384		2004	0.91%
1G2 Perennial ryegrass	1G2		2004	0.63%
1GSquared Perennial ryegrass	APR1664		2007	1.06%
246 Perennial ryegrass			1991	0.27%
2CB Perennial ryegrass	PST-2CB		1996	1.97%
4.625 (ProTyme) Perennial ryegrass <sup>2</sup>	4.625, ABT-99-4.625, 625, ProTyme		2004	0.77%
856 Perennial ryegrass	PR 856		1991	0.87%
89-90 Perennial ryegrass	WVPB 89-90		1994	2.15%
90-14 Perennial ryegrass <sup>2</sup>	WVPB PR 90-14		1996	7.12%
96-KSOS-L-1-PR-WVPB-C-24 Perennial ryegrass <sup>2</sup>	WVPB-PR-C-24, Wilco-C-24		2000	6.50%
A.S.A.P. Perennial ryegrass	JR-265, A.S.A.P.		2000	1.42%
A+ Perennial ryegrass <sup>2</sup>	WVPB-PR-D-9, PRO Seeds D-9, PS-D-9		2000	6.23%
Academy Perennial ryegrass	WVPB-PR-93-1, PC-93-1, WVPB-PR-P.C.-93-1		1997	2.33%
Accent II Perennial ryegrass	JR-119	Caddieshack	2007	1.04%
Accent Perennial ryegrass	Med-393, GII, Ma-GII	Jackento	1995	0.56%
Accolade Perennial ryegrass	HR-1		1992	4.83%
Accord Perennial ryegrass	Devon Eaver		1993	4.08%
Achiever Perennial ryegrass	Pick 1800		1994	0.93%
Admire Perennial ryegrass	JR-151, Admire		2000	2.37%
Advent Perennial ryegrass	PJC, JC		1991	0.14%
Affinity Perennial ryegrass	GEN-90		1996	0.77%
Affirmed Perennial ryegrass	LTP-95-1X4551, Affirmed		2000	2.59%
Agresso Perennial ryegrass			1991	2.00%
All*Star Perennial ryegrass	Allstar		1992	0.47%
Allaire II Perennial ryegrass	All-2		1995	1.15%
Allsport 2 Perennial ryegrass	ALS2, Allsport 2		2007	0.86%
AllSport Perennial ryegrass	A+96, AllSport		1999	0.92%
AllStar 3 Perennial ryegrass	IS-PR 274		2007	0.65%
Amazing Perennial ryegrass	B1, Amazing		2004	0.72%
Americus Perennial ryegrass	A4-01.0613, Americus		2003	0.04%
APM Perennial ryegrass	MS		1994	0.59%
Applaud II Perennial ryegrass	APR1665		2007	0.11%
Applaud Perennial ryegrass	11301, Applaud		2003	0.39%
Apple GL Perennial ryegrass	AAZ-B104, Apple GL, UP-4		2007	0.76%
APR1472 Perennial ryegrass	APR1472		2005	0.68%
Aquarius 3 Perennial ryegrass <sup>2</sup>	Aquarius 3		2002	1.24%
AQUARIUS 4 Perennial ryegrass <sup>2</sup>	AQUARIUS 4		2008	1.97%
Aquarius Perennial ryegrass	KWS A1-2		1996	0.97%
Archer Perennial ryegrass	CAS-MP21		1998	1.51%
Arrival Perennial ryegrass	CIS-PR 84		2005	0.48%
Ascend Perennial ryegrass	MB 45		1999	3.09%
ASP410 Perennial ryegrass	APR120		1998	0.18%

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ASP6001 Perennial ryegrass	RTS		2007	0.57%
ASP6002 Perennial ryegrass	BPR		2007	1.13%
ASP6003 Perennial ryegrass	TRS		2007	0.85%
ASP6004 Perennial ryegrass	EXS54		2007	0.45%
ASP6005 Perennial ryegrass	AJM		2007	0.76%
ASP6006 Perennial ryegrass	LPFG		2007	0.38%
Assure Perennial ryegrass	FZ 2FZ		1991	0.72%
Attribute Perennial ryegrass	IS-PR 270, Attribute		2007	0.70%
Axcella 2 Annual ryegrass	TXR 2003-TF1	Axceletto	2007	87.24%
Barlennium Perennial ryegrass	BARUSA 95-1, 95-1, Lp 95-1, BARUSA Lp 95-1		2006	0.21%
Bayou Perennial ryegrass <sup>2</sup>	LF-107		2001	1.33%
Bedford Perennial ryegrass <sup>2</sup>			1991	1.40%
Bella Perennial ryegrass	LRF-94-B7E, LRF-94-B7, B7E, B7, B7 red		1997	0.65%
Blackhawk Perennial ryegrass	WVPB-PR-93-41, TMI-EXFLP-94		1996	1.17%
Blazer 4 Perennial ryegrass	Pick MDR, Blazer 4		2004	0.47%
Blazer III Perennial ryegrass	PR 89-8 DDO, Pick 928		1996	1.18%
Boardwalk Perennial ryegrass	WVPB 88-PR D-4		1995	2.72%
Breeze Perennial ryegrass	WVPB-PR-89-666		1995	1.57%
Brightstar II Perennial ryegrass	PST-2M3	Polarstar	1997	2.24%
Brightstar Perennial ryegrass	GH 89		1993	1.79%
Brightstar SLT Perennial ryegrass	PST-2A6B	Vantage	2002	0.55%
Buccaneer II Perennial ryegrass	WVPB-PR-92-4		1998	5.48%
Buccaneer Perennial ryegrass	Koos 90-1 , WVPB-PR-90-1		1994, 1998	7.44%
Buena Vista Perennial ryegrass	CIS-PR 208, IS-PR 208, Buena Vista		2005	2.01%
C-21 Perennial ryegrass	WVPB 88-PR C-21 ( Miss Kitty )		1996	6.28%
Cabo Perennial ryegrass	CIS-PR80, Cabo		2002, 2005	2.62%
Caddieshack II Perennial ryegrass	JR-163	Equate	2007	2.70%
Caddieshack Perennial ryegrass	MED-5071, 93-1705		1999, 2001	1.57%
Cadence Perennial ryegrass	Cadence, MRF 44		2004	3.32%
Calibra Perennial ryegrass	Calibra		2006	6.70%
Caliente Perennial ryegrass	UA		1992	0.74%
Calypso II Perennial ryegrass	Agway PR-92		1996	0.47%
Calypso III Perennial ryegrass	MS2		2007	1.04%
Calypso Perennial ryegrass	SWRC		1993	1.29%
CAS-EP66 (Sierra) Perennial ryegrass <sup>2</sup>	CAS-EP66, EP66, Sierra		2005	1.31%
Casper Perennial ryegrass	01.0618, Casper		2005	1.07%
Catalina II Perennial ryegrass	PST-CATS, Catalina II		2003	1.31%
Catalina Perennial ryegrass	PST-GH-94		1996	3.18%
Cathedral Perennial ryegrass	WX9-1		1995	0.85%
Chaparral II Perennial ryegrass	PST-2VL, Wimbledon, Chaparral II	Paradise	2003	0.43%
Chaparral Perennial ryegrass	PST-2DLM		1997	1.62%
Charger II Perennial ryegrass	PST-2QM	Fairway	1998	0.54%

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		Synonym Name <sup>1</sup>	Approved	Fluorescence Level
Charisma Perennial ryegrass	WVPB-89-92		1995	2.39%
Charismatic Perennial ryegrass	LTP-98-501, Charismatic		2003	1.39%
Chatham Perennial ryegrass	CAS-SRX	Catia	1996	2.11%
Churchill Perennial ryegrass	LTP-DLM, Churchill		2000	2.93%
Cinderella Perennial ryegrass	LF-103, Barefoot, Bigfoot, Cinderella		2002	1.59%
CIS-MBH Perennial ryegrass	ISI-MBH	Platinum	1998	1.27%
Citation Fore Perennial ryegrass	PST-2BR, Citation Fore		2002	0.13%
Citation III Perennial ryegrass	PST-2DGR		1996	0.96%
Commander Perennial ryegrass	259		1996	1.02%
Confetti Perennial ryegrass	STP, Confetti		2007	1.06%
Continental Perennial ryegrass	LF-100, Continental		2000	5.88%
Covet Perennial ryegrass	LF-104, Covet		2002	2.71%
Cruiser Perennial ryegrass	ABT-99-4.709, Cruiser, UT1000, 99.022		2003	0.59%
Cutter II Perennial ryegrass	PM101		2008	0.78%
Cutter Perennial ryegrass	PICK 89-4		1995	1.65%
Dancer Perennial ryegrass	ISS-E		1996	0.78%
Dandy Perennial ryegrass	Cosmos DBS		1991	2.00%
Dasher 3 Perennial ryegrass	Pick RB-1		2008	0.40%
Dazzle Perennial ryegrass	4.724, Dazzle		2004	0.98%
Defender Perennial ryegrass	D04-UP		2008	0.84%
Delaware Dwarf Perennial ryegrass	4dd		1992, 1998	2.60%
Delaware XL Perennial ryegrass	Pick 01-2 PRG		2005	0.71%
Derby Supreme Perennial ryegrass	PR 852		1991	2.85%
Derby Xtreme Perennial ryegrass	IS-PR 268		2007	0.30%
DEVO Perennial ryegrass <sup>2</sup>	DEVO		2005	4.98%
DH-3 Annual ryegrass <sup>2</sup>	DH-3		2008	98.93%
Dillon Perennial ryegrass	ISI - K-2		1992	4.14%
Divine Perennial ryegrass	MB 1-1		1995	3.09%
Driver Perennial ryegrass	B-06.0756		2008	1.02%
DS 95-201 (Enchanted) Perennial ryegrass <sup>2</sup>	DS 95-201, Enchanted		1999	1.12%
Easy Livin' Perennial ryegrass	LF-119, Easy Livin'		2002	1.50%
Ecologic Perennial ryegrass	LF-102, Ecologic		2002	1.49%
Edge II Perennial ryegrass	AC2		2008	0.52%
Edge Perennial ryegrass	Pick 715 , PR 872		1992	1.73%
Elegance Perennial ryegrass	WVPB 88-PR F-7		1995	1.51%
Elf Perennial ryegrass	BJ 1991		1994	0.75%
Elfkin Perennial ryegrass	EL-2		2002	0.89%
Elite Perennial ryegrass	WVPB 88-PR C-23		1995	4.84%
Enterprise Perennial ryegrass	Enterprise, MRF 45		2004	2.76%
Envy Perennial ryegrass	SMTR		1991	0.22%
EP136 (Winterhawk) Perennial ryegrass <sup>2</sup>	EP136, Winterhawk		2003	1.63%
EP39 (Pronto II) Perennial ryegrass <sup>2</sup>	EP39, Pronto II		2000	1.75%

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Variety and Kind	Experimental Designation	OECD	Year	Variety
		Synonym Name <sup>1</sup>	Approved	Fluorescence Level
Equal Perennial ryegrass	WVPB 89-PR 89-57		1994	1.98%
Esquire Perennial ryegrass	WX2-64, Esquire		2000	3.10%
Esteem Perennial ryegrass	MP88, Tiarra, Esteem		2002	0.43%
Evening Shade Perennial ryegrass	VD3cl		1995	1.17%
Exacta Perennial ryegrass	LTP-3351, Exacta		2000	1.22%
Excel Perennial ryegrass	M-B 1-5	Romareda	1995	1.53%
Express II Perennial ryegrass	Pick EJ, 05-EJPR		2009	0.69%
Express Perennial ryegrass	NY88		1992, 1998	4.00%
Extreme Perennial ryegrass	JR-317, Superfly, Extreme		2000	1.32%
Federation Perennial ryegrass	MRF 41, Federation		2002	2.74%
Fiesta 3 Perennial ryegrass	Pick F3, Fiesta 3		2000	1.02%
Fiesta 4 Perennial ryegrass	Pick F4		2007	1.58%
Fiesta II Perennial ryegrass	D114	PICKWICK	1994	1.14%
Firebolt Perennial ryegrass	PRG HS-01-09		2005	0.63%
Florida 80 Annual ryegrass			1992	98.89%
Frontier Perennial ryegrass	C-35		2008	1.82%
Full Throttle Perennial ryegrass	CAS-MP64, MP64, Full Throttle		2006	7.05%
Galaxy Perennial ryegrass	JR-128, Spyglass, Galaxy		2000	1.19%
Gallery Perennial ryegrass	MB 412, Gallery		2002, 2004	1.68%
Garibaldi Perennial ryegrass	Garibaldi		2008	13.01%
Gator II Perennial ryegrass	ISI-RUPR, RUPR, Gator II		1997	2.50%
Gator Perennial ryegrass			1995	0.88%
Gettysburg Perennial ryegrass	WVPB 88-PR PRDR ( NJDR-87 )		1996	2.74%
GL3 Perennial ryegrass <sup>2</sup>	GL3		2008	0.20%
GoalKeeper II Perennial ryegrass	JR-114		2007	2.38%
Goalkeeper Perennial ryegrass	J-1704		1999	0.82%
Grand Slam 2 Perennial ryegrass	PST-2GSM		2007	0.80%
Grand Slam Perennial ryegrass	PST-2L96, Grand Slam		2003	0.40%
Gray Fox Perennial ryegrass	PST-2MNG, Gray Fox		2007	0.47%
Gray Goose Perennial ryegrass	PST-2J15		2007	0.42%
Gray Star Perennial ryegrass	PST-2LGL, Gray Star		2005	1.20%
Grazer Annual ryegrass	Grazer Reseeding		1995	99.78%
Greenland Perennial ryegrass	Pick 9100		1995	1.20%
Greenville Perennial ryegrass	OSP-002, Greenville		2004	2.61%
Grimalda Perennial ryegrass			1991	2.00%
Gulf Annual ryegrass			1996	99.02%
Halo Perennial ryegrass	KN42		2007	2.87%
Harrier Perennial ryegrass	SRX 4UP3, UP		2007	0.39%
Hawkeye 2 Perennial ryegrass	SRX 4692		2009	0.25%
Hawkeye Perennial ryegrass	SRX 4RHT, Hawkeye		2003	0.23%
Headstart 2 Perennial ryegrass	PRG HS-01-07, Headstart 2		2005	0.65%
Headstart Perennial ryegrass	Pick PR 84-91, Headstart		1997	2.09%

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		Synonym Name <sup>1</sup>	Approved	Fluorescence Level
High Life Perennial ryegrass	LF-105, High Life		2002	1.59%
Home Run Perennial ryegrass	RG3P, RG3EP		2007	0.58%
Icon Perennial ryegrass	MB 414, Icon		2002	2.21%
Imagine Perennial ryegrass	OFI-DW2, QS-DW2		1995	1.31%
Indy Perennial ryegrass	BMX-99-228, Indy		2003	0.25%
Inspire Perennial ryegrass	Rutgers 8000, Inspire, R8000		2002, 2004	0.72%
Integra II Perennial ryegrass	APR1659		2007	0.07%
Integra Perennial ryegrass	FPT, Integra		2002	0.12%
IS-OS (Ignite) Perennial ryegrass <sup>2</sup>	IS-OS		2007	25.53%
IS-PR 276 (Amazing GS) Perennial ryegrass <sup>2</sup>	IS-PR 276		2008	1.84%
Jackson Annual ryegrass	MSR-86-1		1992	98.80%
Jet Perennial ryegrass	BFP, Pennington BFP, Jet		2000	0.84%
Jiffie II Perennial ryegrass	Pick 01-3 PRG		2005	1.55%
Jiffie Perennial ryegrass	Pick PR 15-91, Jiffie		1997	6.06%
Keystone 2 Perennial ryegrass	IS-PR 312, MCK		2007	0.12%
La Quinta Perennial ryegrass	JR-255		2007	1.45%
Laredo Perennial ryegrass	PNC-5		1996	0.53%
Legacy Perennial ryegrass	2WDR		1991	0.37%
Lindsay Perennial ryegrass	ISI PR 851		1991	1.72%
Line Drive GLS Perennial ryegrass	APR1797		2008	2.37%
Line Drive Perennial ryegrass	MB 47		1997	2.72%
Linn Perennial ryegrass			1991	5.00%
Lowgrow II Perennial ryegrass	PICK Lp EE-93	Sunbright	1998	1.35%
Lowgrow Perennial ryegrass	Lex 86 , PR 874, Pick LLG	Lex 86	1996	1.31%
LRF-94-C8 Perennial ryegrass <sup>2</sup>	LRF-94-C8, C-8, LRF-C8		1997	0.64%
LS 2000 Perennial ryegrass <sup>2</sup>	LS 2000, LS-PRG-800		2004	2.29%
LS 2100 Perennial ryegrass	PST-2SBE, Sierra, LS 2100		2004	2.94%
LS2200 Perennial ryegrass	2.0383, 02.0383, LS 2200		2006	0.79%
Lynx Perennial ryegrass	Pick EEC		1997	4.19%
Mach 1 Perennial ryegrass	Roberts 627, Mach 1		2003	0.47%
Magic II Perennial ryegrass	EP37, Magic II		2000	1.36%
Magic Perennial ryegrass	TPR 88B		1994	1.21%
Magnolia Annual ryegrass			1997	None <sup>3</sup>
Majesty Perennial ryegrass	MB 43, MB 43		1997	1.59%
Manhattan 3 Perennial ryegrass	PST-2MS, Manhattan III	Triman	1996	0.88%
Manhattan 4 Perennial ryegrass	PST-2CRL, Manhattan 4		2003	0.26%
Manhattan 5 GLR Perennial ryegrass	PST-2AM		2007	0.54%
Manhattan II Perennial ryegrass		Numan	1991	0.65%
Mardi Gras Perennial ryegrass	ZPS-2NV		1998	1.07%
Marshall Annual ryegrass			1991	96.00%
MBH 2 Perennial ryegrass	MBH 2, MBH2		2007	0.81%
MHT (Arctic Green) Perennial ryegrass	MHT, Arctic Green		2008	0.22%

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Monterey 3 Perennial ryegrass	JR-408		2007	1.63%
Monterey II Perennial ryegrass	JR-187	New Orleans	2001	1.94%
Monterey Perennial ryegrass	J-1706		1999	2.64%
Morningstar Perennial ryegrass	SYN P		1994	0.87%
MP139 (Seahawk) Perennial ryegrass <sup>2</sup>	MP139, Seahawk		2003	1.46%
MP5 (PDQ) Perennial ryegrass <sup>2</sup>	MP5, CAS-MP5, MP55, PDQ		2000	4.65%
MP58 (Splendor) Perennial ryegrass <sup>2</sup>	MP58, Splendor		2002	0.44%
Mulligan Perennial ryegrass	NK 89001		1995	1.86%
Navajo Perennial ryegrass	2DPR	Comanche	1991	0.37%
Newlinn Perennial ryegrass	WVPB PR N-33, N-33		1996	5.85%
Nexus Perennial ryegrass	MB 49, Nexus		2000	2.01%
NightHawk Perennial ryegrass	WVPB 89-PR A-3		1993	1.39%
Nobility Perennial ryegrass	WVPB PR 91-131, Koos 91-131		1996, 1998	7.53%
Nomad Perennial ryegrass	JB-2		1995	1.03%
Notable Perennial ryegrass	AF		2007	0.54%
Nova Perennial ryegrass	SR 4031 PR 831		1991	1.00%
Nusprint Annual ryegrass	ARG-N		2008	98.77%
Omega 3 Perennial ryegrass	PST-2DR		1996	0.73%
Omni Perennial ryegrass	SRX 4220, Maxim, SRX 4210		1995	0.51%
Ortet (Boost) Perennial ryegrass <sup>2</sup>	Ortet, AT-100, Boost		2006	49.83%
OSC108 (Whitney) Perennial ryegrass <sup>2</sup>	OSC108, LF-108		2008	2.62%
OSC109 (Michelangelo) Perennial ryegrass <sup>2</sup>	OSC109, LF-109		2008	2.59%
OSC110 (Edison) Perennial ryegrass <sup>2</sup>	OSC110, LF-110		2008	1.61%
OSC112 (Newton) Perennial ryegrass <sup>2</sup>	OSC112, LF-112		2008	0.87%
OSC116 (Galileo) Perennial ryegrass <sup>2</sup>	OSC116, LF-116		2008	0.36%
Overdrive Perennial ryegrass	BSP-1, Overdrive, BSP		2007	0.67%
Pacesetter II Perennial ryegrass	PS-2, PS2		2009	0.99%
Pageant II Perennial ryegrass <sup>2</sup>	Pratum P-2		2001	3.32%
Pageant Perennial ryegrass	WVPB PR C-24, C-24		1995	2.22%
Palace Perennial ryegrass	IS-PR 273		2007	0.14%
Palmer II Perennial ryegrass	P89		1993	1.51%
Palmer III Perennial ryegrass	LRF-94-MPRH, MPRH, LRF-MPRH		1997	0.23%
Palmer IV Perennial ryegrass	IG3, 1G3, Palmer IV		2004	1.76%
Palmer Perennial ryegrass			1993	1.04%
Panterra Annual ryegrass	BAR LM1001B, BAR Lm 1001b, TXR98-DBDF		2006	98.36%
Panther GLS Perennial ryegrass	APR1662		2008	0.83%
Panther Perennial ryegrass	ZPS PR1		1998	1.18%
Paragon Perennial ryegrass	MML, TMI-MML		2001	0.88%
Partner Perennial ryegrass <sup>2</sup>	Partner, MRF 43		2004	2.83%
Passerel Plus Annual ryegrass	Passerel Select, AAR-1		2001	98.83%
Passion Perennial ryegrass <sup>2</sup>	Passion, RAD-PR9, PR9		2005	1.01%
Passport Perennial ryegrass	PST-2FF	Romeo	1996	1.06%

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Patriot 3 Perennial ryegrass <sup>2</sup>	Patriot 3		2002	2.10%
PATRIOT 4 Perennial ryegrass <sup>2</sup>	PATRIOT 4		2008	0.88%
Patriot II Perennial ryegrass			1995	0.42%
Pavilion Perennial ryegrass	HMX-99-226, Pavilion, HMX 226		2003	0.20%
Pearl II Perennial ryegrass	EDP, Pearl II, EPD		2002	1.00%
Pearl Perennial ryegrass	CAS-EP20, EP20 DR		1998	1.86%
Pegasus Perennial ryegrass	WVPB-PR-A-5		1995	2.41%
Penguin 2 Perennial ryegrass	SRX 4SLT		2008	0.81%
Pennant II Perennial ryegrass	MB 42		1997	1.63%
Pennant Perennial ryegrass			1991	0.50%
Pentium Perennial ryegrass	NJ 6401	Marquez	2004	0.86%
Peregrine Perennial ryegrass	APR1425(SR), APR1425, Peregrine		2007	0.15%
Phantom Perennial ryegrass	A7 White, A7, 7311		1998	2.19%
Phenom Perennial ryegrass	APR1660		2007	0.19%
PICK Lp Q-93 Perennial ryegrass <sup>2</sup>	PICK Lp Q-93		1998	6.44%
Pinnacle II Perennial ryegrass	BAR Lp 9B-2, B-2, BAR 9 B2		2006	0.88%
Pleasure Perennial ryegrass	Syn Y		1992, 1998	4.09%
Pleasure Supreme Perennial ryegrass	PM 103		2008	0.49%
Pleasure XL Perennial ryegrass	Pick Lp I-93, Pleasure XL		2000	1.11%
PM 102 Perennial ryegrass	PM 102		2008	0.39%
PR 1-94 Perennial ryegrass	Pick PR 1-94		2003	0.95%
PR 8820 Perennial ryegrass	PR 8820/PR 9122	Essence	1995	0.79%
PR8821 Perennial ryegrass	IS-PR 256		2008	1.06%
Prelude GLS Perennial ryegrass	APR1619		2008	0.98%
Prelude II Perennial ryegrass	Lofts 2P2		1993	2.25%
Prelude III Perennial ryegrass	LRF-94-B6, B-6, LRF-B6		1997	0.59%
Prelude IV Perennial ryegrass	A00, Prelude IV		2004	0.62%
Prelude Perennial ryegrass			1995	1.72%
Premier II Perennial ryegrass	BAR PRE II, BAR USA 94-II		2006	0.50%
Presidio Perennial ryegrass	CNV		2007	0.76%
Primary Perennial ryegrass	IS-PR 269		2007	0.18%
Priority Perennial ryegrass	Priority, DPR		2007	1.25%
Private Perennial ryegrass	ES45		2007	0.56%
Prizm Perennial ryegrass	ZPS-28D , 28D, PST-28D		1994	0.71%
Prosport 2 Perennial ryegrass	Prosport II, Pro2		2009	1.87%
Prosport Perennial ryegrass	AG-P981		2001	1.36%
Protocol II Perennial ryegrass <sup>2</sup>	PR2, Smith PR2		2000	5.28%
Protocol Perennial ryegrass	WVPB-PR-93-3, Koos 93-3		1998	4.30%
Prototype Perennial ryegrass	DCM		2007	0.20%
Prowler Perennial ryegrass	APR777		2001	0.21%
PST-2LAN Perennial ryegrass <sup>2</sup>	PST-2LAN		2007	0.50%
Quartet Perennial ryegrass <sup>2</sup>	Quartet, KLP947		20,042,007	7.31%

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Quebec Perennial ryegrass	Pick PR C-97		2005	1.14%
Quest II Perennial ryegrass <sup>2</sup>	Quest II, ABT 4.721		2006	0.83%
Quick Trans Perennial ryegrass	PST-3BK		2002	0.11%
Quicksilver Perennial ryegrass	PST-2G1, Quicksilver		2004	6.86%
Quickstart II Perennial ryegrass	Quickstart II, PST-3BKM		2006	0.06%
Quickstart Perennial ryegrass	2FQR		1991	0.18%
R2 Perennial ryegrass	ISI-R2, R2		1997	1.25%
Racer 2 Perennial ryegrass	Pick RC2	Pick RC2	2002	0.18%
Racer Perennial ryegrass	Pick Lp H-93		1999	1.23%
Radiant II Perennial ryegrass	APR1461, Radiant II		2004	0.80%
RAD-PR27 Perennial ryegrass	PR27, RAD-PR27, OS27		2008	2.25%
Ragnar II Perennial ryegrass	P201, Ragnar II		2006	4.20%
Ragnar Perennial ryegrass	P101, Ragnar		2006	6.28%
Refine Perennial ryegrass	PST-2RT, Refine		2005	0.45%
Regal 5 Perennial ryegrass	IS-PR 271		2007	0.20%
Regency Perennial ryegrass	75E		1991	0.99%
Repell GLS Perennial ryegrass	APR1669		2008	0.90%
Repell II Perennial ryegrass	LDRD	Verdi	1993	1.56%
Repell III Perennial ryegrass	LRF-94-C7, C7, LRF-C7		1997	0.80%
Repell Perennial ryegrass			1992	0.33%
Reveille Perennial ryegrass			1991	2.00%
Revenge GLX Perennial ryegrass	JR-348	Excite	2007	0.16%
Rio Annual ryegrass <sup>2</sup>	WVPB LM AR-42 (Rio)		1995	98.97%
Riviera II Perennial ryegrass	Pick DKM		1995	1.08%
Riviera Perennial ryegrass	PICK 647		1992	0.58%
Roadrunner Perennial ryegrass	PST-2ET		1997	2.53%
Rodeo II Perennial ryegrass			1995	2.47%
Rosalin Perennial ryegrass	HE 411		1999	3.26%
Salinas Perennial ryegrass	PST-2SLX, Salinas		2003	0.85%
Saturn II Perennial ryegrass	PST-2ST		1998	0.85%
Sauvignon Perennial ryegrass	DPL 9603, Sauvignon		2006	1.28%
Secretariat Perennial ryegrass	RPBD		2002	1.49%
Seville II Perennial ryegrass	WX9-2000, Seville II		2002	1.33%
Seville Perennial ryegrass	PE8	Leonardo	1992	0.33%
Sherwood Perennial ryegrass	SRR		1996	1.08%
Shining Star Perennial ryegrass	PST-2B3		1994	0.10%
Shining Star II Perennial ryegrass	PST-2M*		2009	0.09%
Showtime Perennial ryegrass	PST-2LA, Showtime		2005	2.98%
Silver Dollar Perennial ryegrass	PST-2J\$, Silver Dollar		2005	0.04%
SkyHawk Perennial ryegrass	MP42, Sky Hawk, SkyHawk		2002	2.09%
Slugger Perennial ryegrass	OS, Slugger		2007	1.41%
Sol Perennial ryegrass	EP 53, EP53, Sol		2002	0.55%

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Sonata Perennial ryegrass	PST-2R3, 2R3		1998	1.20%
Soprano Perennial ryegrass	DP1		2007	0.19%
Splendid Perennial ryegrass	MB 411, Splendid		2002, 2004	2.16%
SR 4100 Perennial ryegrass		Athena	1994	0.37%
SR 4200 Perennial ryegrass	SRDR		1994	0.34%
SR 4220 Perennial ryegrass	SRX 4801, SR 4220	Greenview	2003	0.27%
SR 4420 Perennial ryegrass	SRX 4820, SR 4420	Speedster	2003	0.28%
SR 4500 Perennial ryegrass	SRX NJPR, SRX 4NJPR, SRX 4500		2001	0.24%
SR 4550 Perennial ryegrass	APR1557		2007	0.04%
SR 4600 Perennial ryegrass	SRX 4SP, SP		2007	0.45%
Stallion Select Perennial ryegrass	WVPB 89-105		1994	2.37%
Stallion Supreme Perennial ryegrass	WVPB PR E-1, PSI-E-		1998	1.16%
Stardance Perennial ryegrass	PST-2FE		1996	1.90%
Statesman II Perennial ryegrass	SS 33 DS		1995, 1998	8.42%
Statesman Perennial ryegrass	WVPB 88-PR D-12		1993	1.27%
Stellar Perennial ryegrass	CIS-PR-72, PR 72, CIS-PR72, Stellar		2002, 2007	2.46%
Summerset Perennial ryegrass	MB 413, Summerset		2002, 2004	1.35%
Sunkissed Perennial ryegrass	4.834, 834, ABT-99-4.834, Sunkissed		2004	0.83%
Sunshine 2 Perennial ryegrass	PRG HS-01-08, Sunshine 2		2005	2.01%
Sunshine Perennial ryegrass	Pick Lp 102-92		1999	2.65%
Superstar Perennial ryegrass	EP57, Superstar		2002	3.46%
Surrey Annual ryegrass	Florida 1986 LR		1992	98.91%
TAM 90 Annual ryegrass	TX-R-85-2		1994	98.45%
Target Perennial ryegrass	TPR 88A	Libra	1991	3.28%
Tee-Lee Perennial ryegrass	TR47		2007	1.22%
Terradyne Perennial ryegrass	BMX-99-225, Terradyne, ABT 4.960, 99-4.960		2003	0.18%
Tonga Perennial ryegrass			1996	11.53%
Top Gun II Perennial ryegrass	JR-324, Top Gun II	Azimuth	2006	2.42%
Top Gun Perennial ryegrass	J-1703, 93-1703		1999, 2001	1.15%
Top Hat Perennial ryegrass	ISI APR		1995	0.77%
Topeka Perennial ryegrass	WVPB 88-PR D-10		1993	2.34%
Tove Perennial ryegrass <sup>2</sup>	Tove		1998	17.48%
Transformer Perennial ryegrass	APR1667		2008	0.38%
Twister Perennial ryegrass	WVPB-PR-90-2, KOOS 90-2		1994	3.85%
Uno Perennial ryegrass	11T, 11-T		2008	1.26%
Vail Perennial ryegrass	P22, LP22, Vail		2000	0.82%
Vantage Perennial ryegrass	PR 862		1991	2.19%
VB 77 Perennial ryegrass	VB 77		2008	0.77%
Vibrant Perennial ryegrass <sup>2</sup>	Lewis Seed PR#1, Lewis #1, WVPB-PR-Lewis #1, Vibrant		2000	4.30%
Vivid Perennial ryegrass	WX2-65		1998	1.24%
Vixen Perennial ryegrass	MRF 42, Vixen		2002	2.53%
Voyager Perennial ryegrass <sup>2</sup>	Voyager		2004	4.03%

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Wayfarer Perennial ryegrass	L44		2007	1.41%
Whistler Perennial ryegrass	MP56, MP-56, Black Pearl, Whistler, LP56, EP56		2003	0.53%
Wilmington Perennial ryegrass	MB 48, Wilmington		2000	0.17%
Wind Dance 2 Perennial ryegrass	PWDR		2007	0.98%
Wind Dance Perennial ryegrass	MB 46		1998	1.17%
Wind Star Perennial ryegrass	PST 28M		1996	0.47%
Wizard Perennial ryegrass	MB-41	Sardinero	1995	2.57%
WVPB PR C-2 Perennial ryegrass <sup>2</sup>	WVPB PR C-2, C-2		1998	8.65%
WVPB-PR-93-KFK (Spellbound) Perennial ryegrass <sup>2</sup>	WVPB-93-KFK, WVPB-PR-93-KFK, WVPB-PR-KFK		1998	3.84%
WVPB-PR-Koos-95-9 (Breeze II) Perennial ryegrass <sup>2</sup>	WVPB-PR-Koos-95-9, Koos 95-9, Breeze II		1999	6.85%
WVPB-PR-RS-2 Perennial ryegrass <sup>2</sup>	WVPB-PR-RS-2, WVPB-RS-2, RS-II		1999	1.59%
WVPB-XB-2 Perennial ryegrass <sup>2</sup>	WVPB-XB-2, SB-2		2000	26.71%
WVPB-XP-6 Perennial ryegrass <sup>2</sup>	WVPB-XP-6, XP-6		2000	21.69%
Yorktown III Perennial ryegrass	LDRF		1993	1.42%
Zoom Perennial ryegrass	LCK		2009	0.05%

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