

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



**ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES**

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MAY 2014



NATIONAL GRASS  
VARIETY REVIEW BOARD

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES  
(MAY 2014)

The Association of Official Seed Certifying Agencies (AOSCA), National Grass Variety Review Board reviewed the following varieties on March 04, 2014, in San Diego, California. The Board recommended the inclusion of these varieties for certification. Seed of these varieties may be certified, providing production meets all standards of the Certifying Agency of the jurisdiction in which the seed is grown.

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

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

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Respectfully submitted,

Doug Boze, Chair  
National Grass Variety Review Board

## 2014 AOSCA GRASS NVRB

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# Grass

## BAR FA 6253 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): BAR FA 6253  
 Date submitted: 8 January 2014
2. The germplasm used to develop BAR FA 6253 traces back, maternally, to Barrington (63.60%) top crossed with French germplasm; and to Barvado (36.40 %) selections. Breeding method: topcrosses, polycrosses, turf/traffic selections, with recurrent selection. Selection Criteria: turf qualities, dark green color, freedom from production diseases, and uniform heading. Breeder seed was produced and declared in 2005.
3. BAR FA 6253 has been tested for turf in KY. It has shown adaptation to that climatic zone.

4. Growth & Morphology	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length	
	Albany, OR		Albany, OR		Albany, OR	
	2012	2013	2012	2013	2012	2013
Traits						
BAR FA 6253	93.8	99.3	41.5	47.8	15.6	19.5
Barrington	116.8	116.1	56.2	58.6	19.9	23.4
Barvado	107.8	110.1	46.7	54.9	19.9	24.3
Barlexas II	119.2	118.9	58.6	60.9	21.7	24.4
Kentucky 31+	150.2	138.4	69.1	60.6	27.2	29.5
LSD (.05)	3.9	4.9	3.3	5.3	1.4	1.4
Variance	10.0	12.5	18.2	27.8	19.9	17.5

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

Variants to be expected and frequency: lighter green; <4%

5. Turf Use	Turf Quality (1-9)		Genetic Color (DIA) <sup>1</sup>		Brown Patch (%)		Cover (%)	
	Lexington, KY		Lexington, KY		Lexington, KY		Lexington, KY	
	2007	2008	2008	2009	2007	2008	2011	2012
BAR FA 6253	7.5	6.9	0.363453216	0.363926209	0	0	83.3	97.9
Barvado	7.5	6.8	0.358974999	0.370514340	0	0	81.2	94.0
BarRobusto	7.3	6.7	0.358508623	0.369976528	1.7	3.3	87.0	92.1
Barrington	7.3	6.3	0.349625742	0.355064577	3.3	13.3	81.1	92.2
Kentucky 31+	5.5	5.0	0.317621114	0.304737211	8.3	11.7	44.0	93.0
LSD (.05)	0.81	0.42	0.005293587	0.00944652	7.9	9.3	8.6	11.6
Variance	9.5	5.3	1.1	2	5.7	45.1	6.4	7.7

●Scale used to report traits (if appropriate): 1-9, with 9 ideal quality; <sup>1</sup>The Genetic Color value is a quantitative measure of the green, and is color index derived from hue, saturation and brightness coordinates.

6. Breeder seed stock is maintained by West Coast Research Center, Barenbrug USA, Inc., Albany, OR, USA. Foundation stands may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by four additional harvests of Certified production. Certified class fields will be limited to seven years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.
7. If 'BAR FA 6253' is accepted by official seed certifying agencies, Certified seed will be first offered for sale spring of 2014. At this time Plant Variety Protection (PVP) will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## B-7.1372 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-7.1372  
 Date submitted: 4 Jan 2014
2. In 2004, plants were grown in a greenhouse. Thirty-six plants each from Metropolitan and Americus and 24 plants each from Prelude III and Phantom survived, representing respectively approximately 18, 18, 19, and 12 % in the final variety. In addition, 84 plants survived greenhouse tests that originated from five different polycrosses dating to 2002 from crosses made between Palmer II, Prelude II, Palmer III, Prelude III, Yorktown II and Repell III, cycled in greenhouse trials with survivors taken to field nurseries, rogued for rust resistance and seed yield, and remaining plants bulk harvested for the next cycle of selection, with each parent from 2002 representing approximately 5.5% of parentage in the final variety. In fall 2005, the plants were placed in a nursery with no more than ten percent roguing for rust susceptibility in spring 2006, with the remaining plants bulk harvested and designated breeders seed of B-7.1372
3. B-7.1372 was tested for overseeding turf in Texas and as a lawn in Oregon and has shown adaptation to those areas for turf.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Lebanon, OR		Lebanon, OR		Lebanon, OR	
	2009	2010	2009	2010	2009	2010
Traits						
B-7.1372	141	141	42	55.2	10.7	10.4
Prelude III	137	142	55	56.8	11.7	10.4
Palmer III	142	148	54	58.8	12.8	11.0
Americus	137	140	46	58.2	12.0	10.7
Linn	139	131	51	72.5	11.8	13.3
LSD (.05)	4.3	3.3	7.5	13.0	2.1	2.1
CV (%)	1.8	1.4	9.9	12.9	10.8	11.6

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

Variants to be expected and frequency:     Variants will be less than 5% and slightly more yellow or taller.

5. Turf Use	Quality* 2009-10		Density* 2009-10		Color* 2009-10		Texture* 2009-10	
	Texas		Texas		Texas		Texas	
	Oregon	Oregon	Oregon	Oregon	Oregon	Oregon	Oregon	Oregon
B-7.1372	5.7	5.8	6.7	5.8	5.1	5.6	5.6	6.0
Palmer III	3.9	4.8	3.4	4.8	4.1	4.0	4.2	5.5
Palmer II	4.2	4.3	3.7	4.5	4.2	3	4.2	5.3
Linn	2.1	1.6	5.8	2	1.3	1.0	2.0	1.8
LSD (.05)	0.4	0.3	0.7	1.0	0.93	0.5	0.85	.5
CV	9.1	3.0	7.1	8.4	12.2	3.9	8.5	3.4

●Scale used to report traits: \*Rated on a scale of 1 -9, 9 =ideal.

6. Breeder seed of B-7.1372 was first produced in 2006 and is maintained by Blue Moon Farms LLC. Adequate breeder seed was produced to reproduce the variety for the life of the variety. Foundation, Registered, and Certified classes are permitted. Foundation stands may be planted only from breeder seed. Foundation class fields may be harvested for Foundation for a maximum of three years, followed by two years of Registered, and five years as Certified. Certified class fields produced from Registered or Foundation seed will be limited to seven years of certified production. Additional years of seed production may be approved by the breeder or the breeders designee
7. If this variety is accepted as eligible for certification by official seed certifying agencies, certified class seed would likely be first offered for sale in 2015. It is undecided if PVP will be sought.

Date this application was submitted: Dec 17, 2013

Date recommended by the VRB: Mar 24, 2014



# Grass

## B-7.1373 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): B-7.1373  
 Date submitted: 4 Jan 2014
  
2. In 2005-06, plants were screened in a greenhouse, with survivors from various sources: eighty-four from Metropolitan, 60 from Indy, 48 from Americus, 24 from Acappella, 108 from Roadster, 60 from Palmer III, and 48 from a cross between 3 plants collected in Poland and Palmer II; respectively each variety constituted approximately a 17, 12, 9, 5, 22, 12, and 10% contribution to the final variety. In addition, sixty plants from 4 different polycrosses dating to 2002 from crosses made between Palmer II, Prelude II, Palmer III, Prelude III, Yorktown II and Repell III, cycled in greenhouse trials with survivors taken to field nurseries, rogued for rust resistance and seed yield, and remaining plants bulk harvested for the next cycle of selection and further screened in 2005 were included in this polycross; respectively each of the six parents contributed approximately 2% of the final variety. In fall 2006, the plants were placed in a nursery, with rouging in spring 2007 to keep seven plants of each source, for a final retention of 54 plants. Roguing was for rust resistance in spring and attractiveness, with the retained plants bulk harvested and designated breeders seed of B-7.1373 in 2007.
  
3. B-7.1373 was tested in Texas as an overseeding grass and in Oregon as a lawn turf and the performance suggests they would be adapted there.

4. Growth & Morphology	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Length (cm)	
	Lebanon, OR		Lebanon, OR		Lebanon, OR	
Traits	2009	2010	2009	2010	2009	2010
B-7.1373	139	143	46	63.5	11.3	11.0
Prelude III	137	142	55	56.8	11.7	10.4
Palmer III	142	148	54	58.8	12.8	11.0
Americus	137	140	46	58.2	12.0	10.7
Linn	139	131	51	72.5	11.8	13.3
LSD (.05)	4.3	3.3	7.5	13.0	2.1	2.1
CV (%)	1.8	1.4	9.9	12.9	10.8	11.6

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

Variants to be expected and frequency: Variants will be less than 5% and slightly more yellow or taller.

5. Turf Use	Quality* 2009-10		Density* 2009-10		Color* 2009-10		Texture* 2009-10	
	Texas		Oregon		Oregon		Oregon	
a) Oregon	Texas	Oregon	Texas	Oregon	Texas	Oregon	Texas	Oregon
B-7.1373	6.3	6.4	6.6	5.7	6.1	6.8	6.6	6.8
Palmer III	3.9	4.8	3.4	4.8	4.1	4	4.2	5.5
Palmer II	4.2	4.3	3.7	4.5	4.2	3	4.2	5.3
Linn	2.1	1.6	5.8	2	1.3	1.0	2.0	1.8
LSD (.05)	0.4	0.3	0.7	1.0	0.93	0.5	0.9	0.5
CV	9.1	3.0	7.1	8.4	12.2	3.9	8.5	4.0

\*Rated on a scale of 1-9, 9=best.

6. Breeder seed of B-7.1373 was first produced in 2007 and is maintained by Blue Moon Farms LLC. Adequate breeder seed was produced to reproduce the variety for the life of the variety. Foundation, Registered, and Certified classes are permitted. Foundation stands may be planted only from breeder seed. Foundation class fields may be harvested for Foundation for a maximum of three years, followed by two years of Registered, and five years as Certified. Certified class fields produced from Registered or Foundation seed will be limited to seven years of certified production. Additional years of seed production may be approved by the breeder or the breeders designee.
  
7. If this variety is recommended as eligible for certification by official seed certifying agencies, it is anticipated that certified class seed would likely be first offered for sale in 2015. It is undecided if PVP will be sought.

Date this application was submitted: Dec 17, 2013

Date recommended by the VRB: Mar 24, 2014



# Grass

## B-9.1578 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Annual (Italian) Ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): B-9.1578, B-9.1578 TAG-TAR1, TAG-TAR1  
 Date submitted: \_\_\_\_\_

2. Breeding History: B-9.1578 annual ryegrass (*Lolium multiflorum*) started in fall of 2004, with approximately 760 plants of Axcella (86%), 80 plants of Marshall (9%), and 20 plants each of Gulf (2%) and Marshall (2%), placed in the field for proximity crossing during summer 2005. Prior to pollination, approximately 90% of the Axcella plants were removed for poor seed production potential (few heads produced) and less than 5 plants removed from each of Marshall and Gulf. At harvest, seed was bulked by maternal source. In Fall 2005, seedlings were grown of each 2005 source in the greenhouse and frequently clipped. The population was cycled this way in 2006, 2007 and 2008. In Fall 2008, approximately 1500 plants were subjected to low mowing in greenhouse trays, with 240 surviving plants put out for seed production harvest in 2009. Approximately 20 percent of the plants with coarse leaf texture were removed prior to pollination. The remaining plants were bulked and designated A-9.1578 as the breeder seed in 2009.
3. A-9.1578 has been tested in golf fairway winter overseeding trials in Texas.

4. Growth & Morphology	Heading Date — Day of Year Lebanon, OR		Plant Height—cm Lebanon, OR		Spike Length—cm Lebanon, OR	
	2011	2012	2011	2012	2011	2012
Traits						
B-9.1578	145	136	101	113	26.8	25.4
Axcella 2	146	136	84	102	22.1	22.8
Gulf	141	133	104	115	24.8	24.0
KB Supreme	147	140	114	119	31.2	28.3
LSD (.05)	2.4	1.3	10.3	7.5	2.3	2.8
CV (%)	0.9	0.5	5.5	3.7	4.8	6.4

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

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

5. Turf Use	Turf Quality <sup>1</sup>		Turfgrass texture <sup>2</sup>		Turf color <sup>3</sup>		Turf density <sup>2</sup>	
	Texas		Texas		Texas		Texas	
	2010	2011	2010	2011	2010	2010	2011	2010
A-9.1578	5.6	5.4	5.1	5.0	5.1	5.6	5.4	5.1
Marshall	3.4	3.3	2.4	2.2	2.9	3.4	3.3	2.4
Axcella 2	5.7	5.5	6.3	5.9	5.8	5.7	5.5	6.3
Gulf	2.8	1.7	1.9	1.9	1.9	2.8	1.7	1.9
LSD (.05)	1.1	0.7	0.9	1.0	0.9	0.7	1.0	0.9
CV (%)	13.9	9.0	12.3	13.5	13.7	11.9	12.1	10.8

<sup>1</sup>Mean Quality Index as an average over four replications of scores 1 to 9, where 1=dead, 5=marginal, 6=acceptable, 9=best possible.

<sup>2</sup>Mean turfgrass texture and density ratings by visual as an average over four replications of scores 1 to 9, where 1=dead, 5=marginal, 6=acceptable, 9=best possible.

<sup>3</sup>Mean color rating by visual score or comparison to color chart.

6. Breeder seed of B-9.1578 Italian (annual) ryegrass was first produced in 2009. A supply of B-9.1578 breeder seed is maintained in cold storage by Blue Moon Farms, LLC, Lebanon, OR. Enough breeder seed was produced in 2009 to last the anticipated life of the B-9.1578. The Foundation, Registered, and Certified classes are permitted. Foundation seed fields may only be planted from breeder seed. Registered seed fields may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Certified fields may be volunteered for five years. The breeder, or an individual designated by the breeder, may approve additional years of seed production.

7. First certified seed will be available in 2014, but it is unknown if PVP will be sought.

Date this application was submitted: Dec 17, 2013

Date recommended by the VRB: Mar 24, 2014



# Grass

## Hiro

### TM0002 (Exp)

#### (Amended – Name Change)

1. Variety name: Hiro Kind: Timothy  
 Genus: Phleum Species: pratense  
 Experimental designation (s): TM0002  
 Date submitted: January 11, 2012

2. Hiro timothy was developed using phenotypic recurrent selection. Approximately 400 plants from the varieties Colt, KY-Early, and Summit, and several FFR breeding lines were established in a spaced-plant nursery at Battle Ground, IN. After 3 years of clonal evaluation for vigor and plant health, and 2 years for summer regrowth, open-pollinated seed from 19 plants selected for excellent summer regrowth was harvested in August 2000 and bulked to form syn-1 breeder seed.

3. Hiro is adapted to and intended for forage use in the north central, east central, and northwest United States. It has been tested in Indiana, Illinois, Kentucky, Ohio, Pennsylvania, Tennessee, Washington, and Wisconsin.

4. Growth and Morphology Traits	Flag leaf length (cm) Buck Creek, IN		Panicle Length (cm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
	Hiro	12.1	13.6	12.9	13.7	34.8
Clair	11.0	12.1	12.0	11.4	34.3	28.3
Climax	12.0	13.3	12.6	13.5	47.5	45.3
LSD(.05)	2.0	1.8	1.4	1.9	0.7	1.4
CV(%)	13.1	11.4	8.3	11.8	1.4	3.3

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

Variants to be expected and frequency: None described

5. Primary Use <u>Forage</u>	Forage Yields T/A Dry Matter				Regrowth: 9 = most		
	Buck Creek, IN		Mt Joy, PA		Buck Creek, IN		
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2002</u>	<u>2003</u>	<u>2007</u>
Hiro	3.68	7.27	8.27	6.30	6.7	7.3	9.0
Clair	2.98	6.62	7.38	5.57	6.0	9.0	7.0
Climax	3.53	4.68	7.73	5.31	3.0	3.7	6.7
LSD(.05)	0.75	0.67	0.90	0.55	1.7	1.2	0.9
CV(%)	14.5	7.4	8.1	6.7	21.3	14.6	8.8

6. Seed increase of Hiro is limited to two generations each of breeder (Syn-1 or Syn-2), foundation (Syn-2 or Syn-3), and certified (Syn-3 or Syn-4) classes. Breeder seed was produced in 2000 (Syn-1) at Battle Ground, IN, and 2008 (Syn-2) at Touchet, WA, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.

7. The first certified seed of Hiro will be offered for sale in 2013. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014





# Grass

## FSG 402TF TF0402 (Exp) (Amended – Name Change)

1. Variety name: FSG 402TF Kind: Tall Fescue  
Genus: Festuca Species: arundinacea  
Experimental designation (s): TF0402
2. FSG 402TF tall fescue was developed using phenotypic recurrent selection. Plants from the varieties Brutus, Stockman, and three FFR breeding lines were selected from a 4-year old yield trial at Franklin, TN, and established in a spaced-plant nursery at Touchet, WA. After a year of clonal evaluation for vigor, seed yield rating, and dark-green color, 15 plants were removed and allowed to intercross in isolation. The syn-1 breeder seed was bulk harvested in 2006.
3. FSG 402TF is adapted to and intended for use as forage in the north central, east central, and northwest United States. It has been tested in Indiana, Kentucky, Pennsylvania, Tennessee, Virginia, Washington, and Wisconsin.

4. Growth and Morphology Traits	Plant Height (cm)		Flag leaf length (cm)		Heading Date (May 1 = 1)	
	Buck Creek, IN		Buck Creek, IN		Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
FSG 402TF	114.3	112.5	13.5	19.8	25.0	20.8
Fawn	105.8	106.8	11.6	17.2	18.0	18.0
KY-31	99.7	109.4	11.8	18.6	27.0	26.5
LSD(.05)	5.1	5.2	1.4	2.3	1.2	2.2
CV(%)	4.0	4.0	9.7	10.5	4.2	8.3

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

Variants to be expected and frequency:  None described

5. Primary Use Forage	Forage Yields T/A Dry Matter				Stem rust: 1 = little or none	
	Buck Creek, IN		Mt. Joy, PA		Buck Creek, IN	Franklin, TN
	<u>2008</u>	<u>2009</u>	<u>2009</u>	<u>2010</u>	<u>2008</u>	<u>2009</u>
FSG 402TF	8.73	8.66	9.29	6.94	1.0	2.7
Fawn	7.61	6.52	7.56	6.10	7.7	9.0
KY-31	8.06	7.69	8.21	5.50	4.7	3.3
LSD(.05)	0.60	1.27	0.88	1.07	1.1	1.1
CV(%)	5.1	12.7	7.6	12.9	21.8	23.8

6. Seed increase of FSG 402TF is limited to two generations each of breeder, foundation, and certified classes. Breeder seed was produced in 2006 (Syn-1) at Touchet, WA, and 2012 (Syn-2) at Otterbein, IN, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
7. The first certified seed of FSG 402TF will be offered for sale in 2015. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## FSG 506OG OG0506 (Exp) (Amended – Name Change)

1. Variety name: FSG 506OG Kind: Orchardgrass  
 Genus: Dactylis Species: glomerata  
 Experimental designation (s): OG0506  
 Date submitted: January 9, 2013
2. FSG 506OG orchardgrass was developed using phenotypic recurrent selection. Approximately 2000 plants from elite polycross progeny lines were established in a spaced-plant nursery at Franklin, TN. After 3 years of clonal evaluation for vigor, summer regrowth, and plant health, selected plants were established in a spaced-plant nursery at Touchet, WA for further evaluation for vigor, heading date, and seed yield potential. Syn-1 breeder seed of FSG 506OG was bulk harvested in 2006 from 15 elite plants in this nursery.
3. FSG 506OG is adapted to and intended for forage use in the north central, east central, and northwest United States. It has been tested in Indiana, Kentucky, Pennsylvania, Tennessee, Washington, and Wisconsin.

4. Growth and Morphology Traits	Flag leaf length (cm) Buck Creek, IN		Flag leaf width (mm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
	FSG 506OG	19.7	26.2	7.3	7.7	20.5
Benchmark Plus	17.2	21.5	5.9	7.2	19.5	20.3
Haymaster	17.9	25.0	6.8	8.2	27.3	27.0
LSD(.05)	2.3	2.5	0.7	0.8	2.1	1.8
CV(%)	11.1	9.0	9.7	9.0	8.6	7.2

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

Variants to be expected and frequency: None described

5. Primary Use Forage	Forage Yields T/A Dry Matter				Foliar Disease: 1 = least		
	New Castle, KY		Franklin, TN		Buck Creek, IN	Franklin, TN	
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2009</u>	
FSG 506OG	3.78	6.54	6.83	4.31	4.3		2.3
Benchmark Plus	3.31	5.86	6.58	3.92	6.3		5.0
Haymaster	3.44	5.78	6.68	4.22	3.7		2.7
LSD(.05)	0.49	0.78	0.60	0.41	1.4		1.5
CV(%)	10.4	9.7	6.9	7.8	19.1		29.9

6. Seed increase of FSG 506OG is limited to breeder, foundation, and certified classes. Breeder seed was produced in 2006 (Syn-1) at Touchet, WA, and 2012 (Syn-2) at Lebanon, OR, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
7. The first certified seed of FSG 506OG will be offered for sale in 2015. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## Kittitas KA TM0402 (Exp) (Amended – Name Change)

- Variety name: Kittitas KA Kind: Timothy  
Genus: Phleum Species: pratense  
Experimental designation (s): TM0402  
Date submitted: January 11, 2012
- Kittitas KA timothy was developed using phenotypic recurrent selection. Plants from the varieties Derby, Richmond, Summit, and Treasure, and two FFR breeding lines were selected from a 4-year old yield trial at Franklin, TN, and established in a spaced-plant nursery at Touchet, WA. After 2 years of clonal evaluation for vigor, regrowth, seed yield rating, dark-green color, and medium maturity, 10 plants were removed and allowed to intercross in isolation. The syn-1 breeder seed was bulk harvested in 2006.
- Kittitas KA is adapted to and intended for use as forage in the north central, east central, and northwest United States. It has been tested in Indiana, Kentucky, Pennsylvania, Tennessee, Virginia, Washington, and Wisconsin.

4. Growth and Morphology Traits	Flag leaf width (mm) Buck Creek, IN		Panicle Length (cm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>	<u>2008</u>	<u>2009</u>
Kittitas KA	8.5	12.1	13.3	12.9	40.3	38.3
Clair	7.9	9.0	12.0	11.4	34.3	28.3
Climax	7.8	11.2	12.6	13.5	47.5	45.3
LSD(.05)	1.0	1.3	1.4	1.9	0.7	1.4
CV(%)	9.5	10.1	8.3	11.8	1.4	3.3

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

Variants to be expected and frequency:  None described

5. Primary Use Forage	Forage Yields T/A Dry Matter				Regrowth: 9 = most			
	Buck Creek, IN		Mt Joy, PA		Buck Creek, IN		New Castle, KY	
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2007</u>	-	<u>2007</u>	-
Kittitas KA	4.41	7.03	8.99	6.78	8.7	-	7.7	-
Clair	2.98	6.62	7.38	5.57	7.0	-	6.7	-
Climax	3.53	4.68	7.73	5.31	6.7	-	6.7	-
LSD(.05)	0.75	0.67	0.90	0.55	0.9	-	1.4	-
CV(%)	14.5	7.4	8.1	6.7	8.8	-	14.2	-

- Seed increase of Kittitas KA is limited to two generations each of breeder (Syn-1 or Syn-2), foundation (Syn-2 or Syn-3), and certified (Syn-3 or Syn-4) classes. Breeder seed was produced in 2006 (Syn-1) at Touchet, WA, and 2009 (Syn-2) at Otterbein, IN, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
- The first certified seed of Kittitas KA will be offered for sale in 2013. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## SS-0705TFSL TF0705SL (Exp) (Amended – Name Change)

1. Variety name: SS-0705TFSL Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): TF0705SL  
 Date submitted: January 9, 2013

2. SS-0705TFSL tall fescue was developed using phenotypic recurrent selection. Approximately 2500 plants from elite polycross progeny lines and varieties were established in a spaced-plant nursery at Buck Creek, IN. After 2 years of clonal evaluation for vigor, plant health, and soft leaf texture, selected plants were established in an isolated crossing block at Touchet, WA for further evaluation for vigor, heading date, and seed yield potential. Syn-1 breeder seed of SS-0705TFSL was bulk harvested in 2008 from 56 elite plants in this nursery.
3. SS-0705TFSL is adapted to and intended for forage use in the east central United States. It has been tested in Indiana, Kentucky, Tennessee, and Virginia.

4. Growth and Morphology Traits	Plant Height (cm) Buck Creek, IN		Panicle length (cm) Buck Creek, IN		Heading Date (May 1 = 1) Buck Creek, IN	
	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2011</u>
	SS-0705TFSL	121.5	113.8	29.8	24.3	23.3
Fawn	116.0	114.3	23.8	22.8	21.5	27.3
KY-31	125.8	106.3	29.5	24.0	26.0	31.5
LSD(.05)	7.2	5.0	1.9	1.9	1.5	1.1
CV(%)	4.9	3.7	5.7	6.6	5.2	3.1

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

Variants to be expected and frequency:  None observed

5. Primary Use Forage	Forage Yields T/A Dry Matter				Buck Creek, IN Franklin, TN		
	New Castle, KY		Franklin, TN		Crown rust	Crown rust	Stem rust
	<u>2010</u>	<u>2011</u>	<u>2009</u>	<u>2010</u>	<u>2011<sup>1/</sup></u>	<u>2011<sup>2/</sup></u>	<u>2009</u>
SS-0705TFSL	9.42	9.29	9.56	4.02	1.7	1.7	2.0
Fawn	8.12	8.85	8.47	4.46	9.0	9.0	9.0
KY-31	9.67	8.7	8.83	3.69	3.0	6.0	3.3
LSD(.05)	0.79	0.78	0.68	0.35	1.5	1.3	1.1
CV(%)	6.4	6.3	5.2	5.8	32.2	21.6	23.8

<sup>1/</sup>Rating: 1 = little or no disease, 9 => 90% leaf area infected; 2009 seeding.

<sup>2/</sup>Rating: 1= little or no disease, 9 => 90% leaf area infected; 2010 seeding.

6. Seed increase of SS-0705TFSL is limited to two generations each of breeder, foundation, and certified classes. Breeder seed was produced in 2008 (Syn-1) at Touchet, WA, and 2012 (Syn-2) at Lebanon, OR, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
7. The first certified seed of SS-0705TFSL will be offered for sale in 2015. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## SS-0708OGDT OG0708DT (Exp) (Amended – Name Change)

1. Variety name: SS-0708OGDT Kind: Orchardgrass  
 Genus: Dactylis Species: glomerata  
 Experimental designation (s): OG0708DT  
 Date submitted: January 9, 2013

2. SS-0708OGDT orchardgrass was developed using phenotypic recurrent selection. Plants from the varieties Benchmark Plus, Bruno, Paiute, Pawnee, Profile, Seco, and an FFR breeding line were selected from a 4<sup>th</sup> year yield trial managed to induce drought stress at Touchet, WA, and established in a spaced-plant nursery at Touchet. Following one year of evaluation for maturity, vigor, and seed yield potential, 35 selected plants were allowed to intercross. The syn-1 breeder seed was bulked harvested in 2008.
3. SS-0708OGDT is adapted to and intended for forage use in the east central United States. It has been tested in Indiana, Kentucky, Tennessee, and Virginia.

4. Growth and Morphology Traits	Flag leaf length (cm) Buck Creek, IN		Panicle length (cm) Buck Creek, IN		Plant Height (cm) Buck Creek, IN	
	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2011</u>	<u>2010</u>	<u>2011</u>
SS-0708OGDT	27.3	30.5	17.5	18.5	113.8	106.5
Benchmark Plus	29.8	25.8	19.5	17.5	114.8	103.0
Haymaster	29.5	31.5	21.0	20.5	112.5	107.0
LSD(.05)	3.7	3.4	2.2	2.4	6.3	7.4
CV(%)	10.7	9.2	9.6	10.3	4.8	5.9

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

Variants to be expected and frequency:  None observed

5. Primary Use Forage	Forage Yields T/A Dry Matter				Foliar Disease: 1 = least		
	New Castle, KY		Franklin, TN		Buck Creek, IN		Franklin, TN
	<u>2010</u>	<u>2011</u>	<u>2009</u>	<u>2010</u>	<u>2011<sup>1/</sup></u>	<u>2011<sup>2/</sup></u>	<u>2009</u>
SS-0708OGDT	7.49	7.39	6.83	3.95	3.3	3.3	2.3
Benchmark Plus	7.27	6.89	6.58	3.92	4.7	6.0	5.0
Haymaster	7.29	6.02	6.68	4.22	2.0	2.0	2.7
LSD(.05)	0.48	0.84	0.60	0.41	1.2	1.6	1.5
CV(%)	4.8	8.8	6.9	7.8	30.9	33.8	29.9

<sup>1/</sup>2009 seeding.

<sup>2/</sup>2010 seeding.

6. Seed increase of SS-0708OGDT is limited to two generations each of breeder, foundation, and certified classes. Breeder seed was produced in 2008 (Syn-1) at Touchet, WA, and 2012 (Syn-2) at Forest Grove, OR, sufficient for the life of the variety, and will be maintained by FFR Cooperative. Foundation fields may be established from breeder seed. Certified fields may be established from breeder or foundation seed. Stands of foundation and certified fields are limited to 3 and 5 years, respectively.
7. The first certified seed of SS-0708OGDT will be offered for sale in 2015. Plant variety protection will not be sought for this variety.

Date this application was submitted: Jan 03, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## Lighthouse JF-517 (Exp)

1. Variety name: Lighthouse Kind: Slender Creeping Red Fescue  
 Genus: Festuca Species: rubra var. litoralis  
 Experimental designation (s): JF-517  
 Date submitted: January 7<sup>th</sup>, 2014

2. Breeding techniques in the population improvement program included recurrent selection and polycross. Plants with superior characteristics were advanced to the next cycle of breeding and inferior material discarded. In 2008, 339 USDA P.I.'s were obtained for evaluation. Thirty-three lines were eliminated due to viability issues, and the remaining 306 lines were evaluated in a 2008 Connell, WA nursery for improved color, density, and seed production. A polycross of 27 selections tracing to 25 accessions was made and designated 09-8005. Seed from each plant was harvested individually and then a bulk was made using near equal amounts for turf testing. In 2010, remnant seed of the 27 half-sib progenies was planted in a replicated isolation block near Eltopia, WA of 3990 plants using approximately 160 plants per line. This block was rogued heavily for uniformity before anthesis removing 57% of the material with lighter color, poor density, reduced seedhead initiation or floret fill. The remaining plants were bulk harvested as Breeder seed in June 2011.
3. Lighthouse is a turf-type slender creeping red fescue suited to golf course roughs, lawns and low maintenance areas, including roadsides, berms, and reclamation sites, but has moderate performance under higher maintenance conditions. Lighthouse has been tested in company trials in Post Falls, ID, Poolesville, MD and Enon, OH since 2011 and has had moderately good performance at these locations.

4. Growth & Morphology Traits	Plant Height (cm) 2013		Flag Leaf Height (cm) 2013		Panicle Length (cm) 2013	
	Moses Lake	Post Falls	Moses Lake	Post Falls	Moses Lake	Post Falls
Lighthouse	57.9	63.8	27.5	28.9	13.4	10.1
Seabreeze GT	55.3	63.0	26.5	29.2	11.9	11.0
Dawson	57.1	81.7	29.3	25.4	11.2	10.6
Lefine	58.4	69.8	27.2	37.4	16.5	14.1
LSD (.05)	5.3	23.0	3.4	4.1	2.4	3.7
C.V. %	17.9	61.3	25.3	24.4	34.9	53.4

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 and they can be identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the Lighthouse plants.

5. Turf Use	Turf Quality		Seedling Vigor		Establishment		Color	
	2013		2011		2011		2012	
	ID	OH	ID	MD	ID	MD	ID	OH
Lighthouse	3.9	3.4	6.8	6.3	6.8	4.7	5.8	5.8
Seabreeze GT	5.7	4.1	7	5.5	8	5	4.5	4.5
Dawson	3.7	3.0	6.0	6.0	6.0	5.5	5.5	5.0
Lefine	5.4	4.7	5.0	2.5	6.0	5.0	5.0	5.0
LSD (.05)	1.7	0.8	3	3.2	3.3	3.4	1.7	1.8
C.V. %	13.5	11.1	20	32.9	21.2	32.3	12.6	12.1

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

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

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

6. Seed classes recognized are Foundation, Registered and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Jacklin Seed by Simplot® maintains the Breeder seed. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.
7. Certified seed should be available July 2014. PVP will not be sought.

Date this application was submitted: Jan 07, 2014

Date recommended by the VRB: Apr 17, 2014



# Grass

## J-0441, 03-0441 (Exp)

1. Variety name: To be determined Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-0441, 03-0441  
 Date submitted: 1/8/14

2. J-0441 Kentucky bluegrass originated as an apomictic, single-plant selection that traces its parentage to Chicago II. In 2001, plants of Chicago II were pollinated by line 95-2986 in hybrid cross 01-0307. Breeding line 95-2986 was an open pollinated hybrid of Rugby II. Approximately 1200 plants of hybrid cross 01-0307 were established in 2002. The following spring, hybrid plants were identified as follows: 34 were identified by their vegetative characteristics, prior to seedhead expression; 3 had unusual morphological characteristics; 5 were identified by their heading maturity; 5 by their seedhead characteristics at maturity; and 33 by their low growth habit. Experimental line 03-0441 was one of the latter. First breeder seed was produced in 2011.
3. J-0441 was tested in sod farm trials in Ohio and Maryland.

4. Growth & Morphology	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length (cm)	
	2013		2013		2013	
Traits	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
03-0441	52.2	66.8	26.8	37.5	6.0	8.4
Limousine	49.6	54.6	24.7	31.4	5.8	7.1
Midnight	58.8	55.0	35.5	32.6	6.4	7.6
Freedom II	46.6	55.0	23.3	27.3	6.3	7.3
Blacksburg	52.3	57.0	24.5	31.0	6.2	8.4
LSD (.05)	7.7	5.9	7.0	7.1	0.9	1.2
C.V. %	10.6	8.1	17.7	19.8	14.3	11.7

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

Variants to be expected and frequency: spaced-plant apomixis rate of 03-0441 averaged 83%

5. Turf Use	Turf Quality		Growth habit (1-9)		Seed Vigor (1-9)		Color (1-9)	
	2010		2008		2008		2008	
a)	Ohio	Maryland	Ohio	Maryland	Ohio	Maryland	Ohio	Maryland
03-0441	6.0	6.7	8.0	7.7	8.0	6.8	9.0	9.0
Midnight	3.3	4.0	3.7	5.3	3.7	5.3	8.0	8.0
Limousine	4.5	4.2	3.0	5.0	6.0	3.0	3.0	3.0
93-1099	4.8	6.3	7.0	5.8	8.0	7.4	7.0	7.5
93-1588	4.8	5.3	8.5	6.7	7.5	7.0	6.0	6.5
LSD (.05)	2.0	3.3	23.5	6.3	2.0	3.4	2.7	2.0
C.V. %	35.2	53.0	55.4	95.3	27.8	49.6	40.9	35.2

•Scale used to report traits (if appropriate): 1 to 9 rating scale, where 9 = most desirable

•Insert additional information for use by inspectors (if any): Trial locations for turf use include Poolesville, Maryland and New Carlisle, Ohio.

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

6. Jacklin Seed by Simplot® maintains the Breeder seed. Seed classes recognized are Foundation, Registered, and Certified with stand lengths of 3, 3, and 6 years, respectively.
7. First certified seed will be produced in 2014, pending NGVRB approval. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Apr 17, 2014



# Grass

## J-0582, 03-0582 (Exp)

1. Variety name: To be determined Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-0582, 03-0582  
 Date submitted: 1/8/14

2. 03-0582 Kentucky bluegrass originated as a low growing, apomictic, single-plant selection from the progeny of Jacklin breeding line 98-2111. 03-0582 was first identified and harvested in the field in May 2003. Breeding line 98-2111 was self pollinated to produce 03-0582. Breeding line 98-2111 originated as a selected progeny of breeding line 96-0305, first identified and harvested in the field in May 1996. Breeding line 96-0305 had a medium seed yield potential, 50% apomixis, and medium-early maturity. Breeding line 96-0305 was a selection from the progeny of a hybrid cross between Absolute Kentucky bluegrass pollinated by BlueChip. First breeder seed was produced in 2011.

3. J-0582 was tested in sod farm trials in Ohio and Maryland.

4. Growth & Morphology	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
03-0582	56.5	46.9	32.1	25.1	7.0	7.2
Limousine	49.6	54.6	24.7	31.4	5.8	7.1
Midnight	58.8	55.0	35.5	32.6	6.4	7.6
Freedom II	46.6	55.0	23.3	27.3	6.3	7.3
Blacksburg	52.3	57.0	24.5	31.0	6.2	8.4
LSD (.05)	7.7	5.9	7.0	7.1	0.9	1.2
C.V. %	10.6	8.1	17.7	19.8	14.3	11.7

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

Variants to be expected and frequency: spaced-plant apomixis rate of 03-0582 averaged 91%

5. Turf Use	Turf Quality		Growth habit (1-9)		Seed Vigor (1-9)		Color (1-9)	
	2010		2008		2008		2008	
	Ohio	Maryland	Ohio	Maryland	Ohio	Maryland	Ohio	Maryland
03-0582	6.0	6.0	8.0	8.0	7.0	6.2	9.0	9.0
Midnight	3.3	4.0	3.7	5.3	3.7	5.3	8.0	8.0
Limousine	4.5	4.2	3.0	5.0	6.0	3.0	3.0	3.0
93-1099	4.8	6.3	7.0	5.8	8.0	7.4	7.0	7.5
93-1588	4.8	5.3	8.5	6.7	7.5	7.0	6.0	6.5
LSD (.05)	2.0	3.3	23.5	6.3	2.0	3.4	2.7	2.0
C.V. %	35.2	53.0	55.4	95.3	27.8	49.6	40.9	35.2

●Scale used to report traits (if appropriate): 1 to 9 rating scale, where 9 = most desirable

●Insert additional information for use by inspectors (if any): Trial locations for turf use include Poolesville, Maryland and New Carlisle, Ohio.

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

6. Jacklin Seed by Simplot® maintains the Breeder seed. Seed classes recognized are Foundation, Registered, and Certified with stand lengths of 3, 3, and 6 years, respectively.

7. First certified seed will be produced in 2014, pending NGVRB approval. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Apr 17, 2014





# Grass

## J-1136, 01-1136 (Exp)

1. Variety name: To be determined Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-1136, 01-1136  
 Date submitted: 1/8/14
2. J-1136 Kentucky bluegrass originated as an apomictic, single-plant selection that traces its parentage to Jacklin breeding line 93-1704, a sister line of 'Total Eclipse.' 93-1704 originated from hybrid cross 89-1037: 'Midnight' Kentucky bluegrass was used to pollinate plants of 'Limousine.' The resulting plants were grown in a spaced-plant field nursery of 40701 plants. Plant number 93-1704 was identified as being a hybrid by the appearance of its foliage, prior to heading. In 2000, 200 spaced plants of 93-1704 were established in a nursery in Post Falls. During maturation in 2001, a selection was made and identified as 01-1136. 01-1136 was different from 93-1704 by the appearance of its seedhead at maturity. First breeder seed was produced in 2010.
3. J-1136's primary application is turf. It was developed and tested in ID. It is in the 2011 National Turfgrass Evaluation Program and has been tested in IL, IN, IA, KS, MD, MA, MN, NJ, NC, ON, OK, TN, UT, VA, WA, and WI.

4. Growth & Morphology	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
01-1136	65.0	65.8	34.9	40.4	7.2	8.7
Limousine	49.6	54.6	24.7	31.4	5.8	7.1
Midnight	58.8	55.0	35.5	32.6	6.4	7.6
Freedom II	46.6	55.0	23.3	27.3	6.3	7.3
Blacksburg	52.3	57.0	24.5	31.0	6.2	8.4
LSD (.05)	7.7	5.9	7.0	7.1	0.9	1.2
C.V. %	10.6	8.1	17.7	19.8	14.3	11.7

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

Variants to be expected and frequency: spaced-plant apomixis rate of J-1136 averaged 97%

5. Turf Use	Genetic Color		Seedling Vigor		Leaf Texture		Quality	
	2012		2012		2012		2012	
	NJ	MA	NJ	WA	NC	UT	MA	IN
a) 01-1136	7.0	6.3	3.7	7.3	7.0	6.7	5.9	6.8
b) 01-1853	6.0	6.7	5.0	7.0	7.7	6.7	5.7	7.0
Midnight	7.0	7.0	3.3	6.7	7.0	6.7	5.7	6.8
Shamrock	4.7	5.7	5.7	7.0	7.7	6.0	4.9	6.2
LSD (.05)	1.7	0.7	1.4	1.4	0.8	0.9	0.9	0.9
C.V. %	17.9	7.3	18.4	13.3	6.6	8.6	10.9	9.0

•Scale used to report traits (if appropriate): 1 to 9 rating scale, where 9 = most desirable

•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. Seed classes recognized are Foundation, Registered, and Certified with stand lengths of 3, 3, and 6 years, respectively.
7. First certified seed is expected in 2015, pending NGVRB approval. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 24, 2014



# Grass

## J-1770, 01-1770 (Exp)

1. Variety name: To be determined Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-1770, 01-1770  
 Date submitted: 1/8/14

2. J-1770 Kentucky bluegrass originated as an apomictic, single-plant selection that traces its parentage to Freedom II. In 1995, 1103 spaced plants of Freedom II were established. At maturation in 1996, a single plant selection was made and identified as 96-3989. In 2000, 200 spaced plants of 96-3989 were established in a nursery near Post Falls, ID. Experimental line 01-1770 was selected at maturation as being different from 96-3989 by the fact that it had a more traditional plant size and a different genetic color. First breeder seed was produced in 2010.

3. J-1770's primary application is turf. It was developed and tested in ID. It is in the 2011 National Turfgrass Evaluation Program and has been tested in IL, IN, IA, KS, MD, MA, MN, NJ, NC, ON, OK, TN, UT, VA, WA, and WI.

4. Growth & Morphology Traits	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
01-1770	61.8	58.2	35.5	32.3	6.5	9.4
Limousine	49.6	54.6	24.7	31.4	5.8	7.1
Midnight	58.8	55.0	35.5	32.6	6.4	7.6
Freedom II	46.6	55.0	23.3	27.3	6.3	7.3
Blacksburg	52.3	57.0	24.5	31.0	6.2	8.4
LSD (.05)	7.7	5.9	7.0	7.1	0.9	1.2
C.V. %	10.6	8.1	17.7	19.8	14.3	11.7

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

Variants to be expected and frequency: spaced-plant apomixis rate of J-1770 averaged 89.5%

5. Turf Use	Genetic Color		Seedling Vigor		Leaf Texture		Quality	
	2012		2012		2012		2012	
	NJ	MA	NJ	WA	NC	UT	MA	IN
01-1770	6.3	7.0	4.3	6.7	8.0	6.0	5.7	7.1
01-1853	6.0	6.7	5.0	7.0	7.7	6.7	5.7	7.0
Midnight	7.0	7.0	3.3	6.7	7.0	6.7	5.7	6.8
Shamrock	4.7	5.7	5.7	7.0	7.7	6.0	4.9	6.2
LSD (.05)	1.7	0.7	1.4	1.4	0.8	0.9	0.9	0.9
C.V. %	17.9	7.3	18.4	13.3	6.6	8.6	10.9	9.0

•Scale used to report traits (if appropriate): 1 to 9 rating scale, where 9 = most desirable

•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. Seed classes recognized are Foundation, Registered, and Certified with stand lengths of 3, 3, and 6 years, respectively.

7. First certified-generation seed was produced in 2013. It will be sold as blue tag seed, pending NGVRB approval. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 24, 2014





# Grass

## J-2495, 99-2495 (Exp)

1. Variety name: To be determined Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): J-2495, 99-2495  
 Date submitted: 1/8/14

2. 99-2495 Kentucky bluegrass originated as an apomictic, single-plant selection from the progeny of breeding line 97-0429. 99-2495 was first identified and harvested in the field in 1999. Breeding line 97-0429 was self pollinated and a single progeny was selected to produce 99-2495. Breeding line 97-0429 had a medium leaf color and reproductive maturity, a high level of apomixis, and was susceptible to ergot and powdery mildew. Breeding line 97-0429 originated as a progeny of a hybrid cross of 'BlueChip' Kentucky bluegrass pollinated by 'Blacksburg.' First breeder seed was produced in 2011.

3. J-2495 was tested in sod farm trials in Ohio and Maryland.

4. Growth & Morphology Traits	Plant Height (cm)		Flag Leaf Height (cm)		Panicle Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
99-2495	64.5	54.9	35.9	28.3	7.1	6.3
Limousine	49.6	54.6	24.7	31.4	5.8	7.1
Midnight	58.8	55.0	35.5	32.6	6.4	7.6
Freedom II	46.6	55.0	23.3	27.3	6.3	7.3
Blacksburg	52.3	57.0	24.5	31.0	6.2	8.4
LSD (.05)	7.7	5.9	7.0	7.1	0.9	1.2
C.V. %	10.6	8.1	17.7	19.8	14.3	11.7

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

Variants to be expected and frequency: spaced-plant apomixis rate of 99-2495 averaged 85%

5. Turf Use	Turf Quality		Growth habit (1-9)		Seed Vigor (1-9)		Color (1-9)	
	2010		2008		2008		2008	
	a) Ohio	Maryland	Ohio	Maryland	Ohio	Maryland	Ohio	Maryland
99-2495	5.7	6.3	6.0	7.7	8.0	5.8	8.0	8.0
Midnight	3.3	4.0	3.7	5.3	3.7	5.3	8.0	8.0
Limousine	4.5	4.2	3.0	5.0	6.0	3.0	3.0	3.0
93-1099	4.8	6.3	7.0	5.8	8.0	7.4	7.0	7.5
93-1588	4.8	5.3	8.5	6.7	7.5	7.0	6.0	6.5
LSD (.05)	2.0	3.3	23.5	6.3	2.0	3.4	2.7	2.0
C.V. %	35.2	53.0	55.4	95.3	27.8	49.6	40.9	35.2

•Scale used to report traits (if appropriate): 1 to 9 rating scale, where 9 = most desirable

•Insert additional information for use by inspectors (if any): Trial locations for turf use include Poolesville, Maryland and New Carlisle, Ohio.

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

6. Jacklin Seed by Simplot® maintains the Breeder seed. Seed classes recognized are Foundation, Registered, and Certified with stand lengths of 3, 3, and 6 years, respectively.

7. First certified seed will be produced in 2014, pending NGVRB approval. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Apr 17, 2014



# Grass

## JT-129, JS818 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreb.  
 Experimental designation (s): JT-129, JS818  
 Date submitted: \_\_\_\_\_

2. JT-129 was developed for improved fine leaf texture, density and color. The maternal parentage of JT-129 derives from: 6% Quest, 6% Crossfire II, 5% Jaguar 4G, 3% Pixie, 2% Coronado, 2% Cayenne and 76% Jacklin experimental lines. Breeding techniques in the population improvement program included selection, paired crosses and polycrosses. JT-129 was developed from 35 lines plugged from company turf trials for superior quality performance. The lines were space planted in a 3302-plant isolation block in 2010. This block was rogued for uniformity removing 89% of plants prior to anthesis based on color, texture, density and quality. The remaining 402 plants were bulk harvested as Breeder seed.

3. JT-129 will be primarily used for turf. It has been tested in company trials since 2011 in ID, MD, and OH. JT-129 is adapted to use in ID, MD, and OH.

4. Growth & Morphology	Plant Height (cm)		Panicle Length (cm)		Flagleaf Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
JT-129	77.8	73.5	15.1	14.7	8.5	11.0
Kentucky 31	99.2	93.6	21.2	22.9	10.7	12.8
Quest	81.2	73.9	15.9	15.9	7.5	10.2
Pixie	91.8	86.6	19.0	18.8	8.8	12.2
Crossfire II	96.5	85.8	21.2	18.7	10.2	10.8
LSD (.05)	5.7	6.0	1.9	1.5	1.6	1.7
CV%	15.5	17.0	25.6	20.7	41.7	36.5

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 and they can be identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the JT-129 plants.

5. Turf Use	Turf Quality		Leaf Texture		Brown Patch		Greenup	
	2012-2013		July 2013		2012-2013		2013	
	2011 Post Falls, ID (high cut)	2011 Poolesville, MD	2011 Post Falls, ID (low cut)	2011 Poolesville, MD	2011 Enon, OH	2011 Poolesville, MD	2011 Post Falls, ID (high cut)	2011 Post Falls, ID (low cut)
JT-129	5.8	4.8	6.0	5.3	3.5	4.0	3.0	3.7
Kentucky 31	2.0	1.9	3.5	4.0	4.5	3.8	4.7	5.0
Quest	4.6	3.7	5.5	6.5	3.8	3.5	4.0	4.0
Pixie	4.2	3.5	5.0	7.0	5.0	3.7	4.3	6.5
Jaguar 4G	4.8	4.6	5.5	5.7	3.8	4.3	2.0	3.5
LSD (.05)	1.0	1.1	1.7	2.2	2.1	1.9	2.7	3.4
CV%	10.2	11.1	12.6	16.2	22.1	20.7	35.5	28.2

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

●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®, Post Falls, ID., maintains Breeder seed of JT-129. Seed classes recognized are Foundation, Registered, and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.

7. Certified seed is expected to be for sale in Aug. 2014. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 24, 2014



# Grass

## JT-136, JS819 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreb.  
 Experimental designation (s): JT-136, JS819  
 Date submitted: \_\_\_\_\_

2. JT-136 was selected for high density, improved fine leaf texture, and dark color. The maternal parentage of JT-136 derives from: 5% Pixie, 5% Crossfire II, 3% Coronado, 3% Cayenne, 3% Marksman, 2% Finelawn Petite, 2% Renegade, 2% Avenger, 1% Padre, and 74% Jacklin experimental lines. The Jacklin experimental lines included material from polycrosses, single plant selections and experimental test varieties that have not been publicly released. Breeding techniques in the population improvement program included selection, paired crosses and polycrosses. Plants with superior characteristics were advanced to the next cycle of breeding and inferior material discarded. JT-136 was developed from 29 half-sib progenies with superior density in company turf trials. The lines were space planted in a 2545-plant isolation block in 2010; 81% of plants were removed prior to anthesis based on color, texture, density and quality. The remaining 609 plants were bulk harvested as Breeder seed in 2011.
3. JT-136 will be primarily used for turf. It has been tested in company trials since 2011 in ID, MD, and OH. JT-136 is adapted to use in ID, MD, and OH.

4. Growth & Morphology	Plant Height (cm)		Panicle Length (cm)		Flagleaf Length (cm)	
	2013		2013		2013	
	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
Traits						
JT-136	79.3	73.6	15.8	15.2	8.8	11.1
Kentucky 31	99.2	93.6	21.2	22.9	10.7	12.8
Quest	81.2	73.9	15.9	15.9	7.5	10.2
Pixie	91.8	86.6	19.0	18.8	8.8	12.2
Crossfire II	96.5	85.8	21.2	18.7	10.2	10.8
LSD (.05)	5.7	6.0	1.9	1.5	1.6	1.7
CV%	15.5	17.0	25.6	20.7	41.7	36.5

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 and they can be identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the JT-136 plants.

5. Turf Use	Turf Quality		Leaf Texture		Brown Patch		Greenup	
	2012-2013		July 2013		2012-2013		2013	
	2011 Post Falls, ID (high cut)	2011 Poolesville, MD	2011 Post Falls, ID (low cut)	2011 Poolesville, MD	2011 Enon, OH	2011 Poolesville, MD	2011 Post Falls, ID (high cut)	2011 Post Falls, ID (low cut)
JT-136	5.1	4.6	6.0	6.0	3.3	3.8	3.3	6.5
Kentucky 31	2.0	1.9	3.5	4.0	4.5	3.8	4.7	5.0
Quest	4.6	3.7	5.5	6.5	3.8	3.5	4.0	4.0
Pixie	4.2	3.5	5.0	7.0	5.0	3.7	4.3	6.5
Jaguar 4G	4.8	4.6	5.5	5.7	3.8	4.3	2.0	3.5
LSD (.05)	1.0	1.1	1.7	2.2	2.1	1.9	2.7	3.4
CV%	10.2	11.1	12.6	16.2	22.1	20.7	35.5	28.2

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

●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®, Post Falls, ID., maintains Breeder seed of JT-136. Seed classes recognized are Foundation, Registered, and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.
7. Certified seed is expected to be for sale in Aug. 2014. PVP will not be sought.

Date this application was submitted: Jan 06, 2014

Date recommended by the VRB: Mar 24, 2014



# Grass

## JT-708, JS825 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea Schreb.  
 Experimental designation (s): JT-708, JS825  
 Date submitted: \_\_\_\_\_

2. JT-708 was selected for sod production characteristics combined with improved quality attributes. The maternal parentage of JT-708 derives from: 2.7 % Blackwatch, 2.7 % Coronado, 2.2 % Scorpion, 1.6 % Pixie, 1.1 % Quest, 4.7 % Cayenne, 0.9 % Mustang 3, 0.7 % Rebel Sentry, 0.4 % Monarch, and the rest to Jacklin non-released experimentals. In 2007, 26800 plants were screened in the 2006 Post Falls, ID nursery. 411 plants were moved into 4 polycrosses. In 2008, remnant seed of individuals from 3 of the polycrosses, 07-8003, 07-8004, and 07-8005 were planted in a 4100-plant isolation block in Connell, WA. This block was rogued before anthesis removing about 50% of the forage-type plants and those with low seed head initiation. The remaining plants were screened with 451 selected from 197 sources. Five seed heads per plant were harvested and bulked as 09-8009. In 2010, seed of 09-8009 was planted in an 1186-plant isolation block in the 2010 Connell, WA nursery. This block was rogued before anthesis for uniformity, removing plants with lighter color, wide leaves, large plant size, reduced seedhead initiation, maturity earlier or later than the majority of the field. The remaining 288 plants (24.3%) were bulk harvested as Breeder seed for JT-708.
3. JT-708 will be primarily used for turf. It has been tested in company trials since 2011 in ID, MD, and OH. JT-708 is adapted to use in ID, MD, and OH.

4. Growth & Morphology	Plant Height (cm)		Panicle Length (cm)		Flagleaf Length (cm)	
	2013		2013		2013	
Traits	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA	Rathdrum, ID	Moses Lake, WA
JT-708	80.6	71.6	16.8	15.9	10.1	9.7
Kentucky 31	99.2	93.6	21.2	22.9	10.7	12.8
Quest	81.2	73.9	15.9	15.9	7.5	10.2
Pixie	91.8	86.6	19.0	18.8	8.8	12.2
Crossfire II	96.5	85.8	21.2	18.7	10.2	10.8
LSD (.05)	5.7	6.0	1.9	1.5	1.6	1.7
CV%	15.5	17.0	25.6	20.7	41.7	36.5

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

Variants to be expected and frequency: Less than 5% variants have been found and they can be identified as having reduced seedhead initiation, maturity earlier or later than the majority of the field, or larger plant size compared to the JT-708 plants.

5. Turf Use	Turf Quality		Leaf Texture		Brown Patch		Greenup	
	2012-2013		July 2013		2012-2013		2013	
	2011 Post Falls, ID (high cut)	2011 Poolesville, MD	2011 Post Falls, ID (low cut)	2011 Poolesville, MD	2011 Enon, OH	2011 Poolesville, MD	2011 Post Falls, ID (high cut)	2011 Post Falls, ID (low cut)
JT-708	5.1	4.4	6.0	6.0	4.2	3.5	2.3	5.0
Kentucky 31	2.0	1.9	3.5	4.0	4.5	3.8	4.7	5.0
Quest	4.6	3.7	5.5	6.5	3.8	3.5	4.0	4.0
Pixie	4.2	3.5	5.0	7.0	5.0	3.7	4.3	6.5
Jaguar 4G	4.8	4.6	5.5	5.7	3.8	4.3	2.0	3.5
LSD (.05)	1.0	1.1	1.7	2.2	2.1	1.9	2.7	3.4
CV%	10.2	11.1	12.6	16.2	22.1	20.7	35.5	28.2

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

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

6. Jacklin Seed by Simplot @, Post Falls, ID., maintains Breeder seed of JT-708. Seed classes recognized are Foundation, Registered, and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.
7. Certified seed is expected to be for sale in Aug. 2015. PVP will not be sought.

Date this application was submitted: Jan 06, 2014

Date recommended by the VRB: Mar 24, 2014



## Grass

### APR2154 (Exp)

- Variety name: \_\_\_\_\_ Kind: Perennial Ryegrass  
Genus: Lolium Species: perenne  
Experimental designation (s): APR2154  
Date submitted: \_\_\_\_\_
- The perennial ryegrass APR2154 was developed from various cycles of recurrent phenotypic and genotypic selection. Each cycle was used to improve the genetic color, yield potential, and disease resistance. APR2154 traces its parentage to the released cultivars Cherokee.  
**1992:** In the fall of 1992, Cherokee was established in a single spaced plant nursery near Vlijmen, the Netherlands. The nursery was evaluated for genetic color, crown density, uniformity, maturity, seed yield potential and disease resistance. The nursery consisted of five replications with 100 plants in each replication. **1993:** In the fall of 1993, 18 plants were selected (3.6%) and designated Lp 3369.  
**1994:** In the summer of 1994, the 18 plants were harvested in bulk. **1997:** In the fall of 1997, a population was formed from Lp 3369. Selection was based on genetic color, crown density, uniformity, maturity, seed yield potential and disease resistance. APR664 was moved to an isolated crossing block and harvested in bulk in the summer of 1998. **1998:** The seed from APR664 was used to establish a single spaced plant nursery that was established in the fall. **1999:** In the summer of 1999, a population was formed and designated APR1086. APR1086 was selected for genetic color, crown density, uniformity, maturity, seed yield potential and disease resistance. APR1086 was moved to an isolated crossing block and harvested in bulk in the summer of 2000. **2000:** The seed from APR1086 was used to establish a single spaced plant nursery that was established in the fall. **2001:** In the summer of 2001, a population was formed and designated APR1522. APR1522 was selected for genetic color, crown density, uniformity, maturity, seed yield potential and disease resistance. APR1522 was moved to an isolated crossing block and harvested in bulk in the summer of 2002. **2002:** In the fall, APR1522 was established in a turf trial near Salem, NJ. Survivors from APR1522 were removed and designated APR1712. **2003:** In the summer of 2003, APR1721 was harvested in bulk. The seed was used to establish a single spaced plant nursery that was established in the fall. **2004:** In the fall of 2004, 28 plants were selected for genetic color, crown density, uniformity, maturity, seed yield potential and disease resistance. The 28 plants were moved to an isolated crossing block and designated APR1844.  
**2005:** In the summer of 2005, APR1844 was harvested in bulk. In the fall APR1844 was established in a turf trial Salem, NJ. The turf trial was severely damaged by the pathogen gray leaf spot (*Pyricularia grisea*). Survivors from the 2005 turf trial were removed and designated APR2047. Fifty plants were established in isolation. **2006:** In the summer of 2006, APR2047 was harvested in bulk. In the fall APR2047 was established in a turf trial Salem, NJ. The turf trial was severely damaged by the pathogen gray leaf spot (*Pyricularia grisea*). Survivors from the 2006 turf trial were removed and designated APR2154. One-hundred plants were established in isolation. **2007:** In the summer of 2007, APR2154 was harvested in bulk. In the fall APR2154 was established in a turf trial in Albany, OR. The trial was managed specifically to measure turf quality and drought resistance. **2008:** In the fall of 2008, a 2,000 plant increase block of APR2154 was established. The seed was harvested in bulk in 2009 and designated APR2154 breeder seed. This seed was used to establish a morphological nursery in the fall of 2011 at the NexGen research facility near Albany, Oregon.
- APR2106 has been tested for turf quality under lawn conditions near Albany, OR. The data indicates that APR2106 is suitable for turf used in this area.

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## Grass

### APR2154 (Exp)

4. Growth & Morphology	Heading Date (days after January 1) Albany, OR		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2012	2013	2012	2013	2012	2013
	APR2154	141.33	133.67	61.20	56.63	32.03
Hawkeye	136.67	129.33	59.13	56.27	33.07	31.97
Amazing	136.67	130.67	61.03	58.00	33.57	33.10
Manhattan II	130.00	125.33	69.90	67.97	35.03	36.67
LSD (.05)	1.79	1.79	3.04	2.41	2.66	2.11
C.V.	0.86	0.90	3.25	2.71	5.37	4.19

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

Variants to be expected and frequency:	Less than 1% of the plants exhibit a taller mature plant height with a lighter green color.
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5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	2012	2013	2012	2013	2012	2013	2012	2013
APR2154	6.33	7.05	5.92	7.22	6.33	8.17	6.33	7.11
Phenom	6.17	7.17	6.58	7.00	6.17	7.94	6.33	7.00
Integra II	6.08	6.94	6.33	6.94	6.08	8.06	6.17	6.94
Manhattan II	4.83	5.33	5.50	6.61	4.83	7.61	5.00	5.94
LSD (.05)	0.42	0.65	0.48	0.50	0.42	0.36	0.53	0.58
C.V.	5.16	7.16	5.64	5.27	5.16	3.45	6.47	6.35

- Scale used to report traits (if appropriate): 1-9 scale; 9=darker, most dense, highest coverage, highest quality.
- Insert additional information for use by inspectors (if any):

6. APR2154 breeder seed is maintained by NexGen Turf Research, Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered class may be established from either Foundation or Breeder seed. Seed production of Foundation and Registered class will be limited to three years. Seed production of Certified class will be limited to five years. Additional years of seed production may be approved by the breeder or an individual designated by the Director of Research, NexGen Turf Research, LLC.
7. Upon acceptance by official seed certifying agencies, Certified seed will be first offered for sale fall of 2014. At this time Plant Variety Protection (PVP) will not be sought.

Date this application was submitted: Jan 02, 2014

Date recommended by the VRB: Apr 17, 2014



# Grass

## APR2237 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): APR2237  
 Date submitted: \_\_\_\_\_

2. The perennial ryegrass APR2237 was developed from various cycles of recurrent phenotypic and genotypic selection. Each cycle was used to improve the genetic color, yield potential, and disease resistance. APR2237 traces its parentage to ten cultivars.

**APR1803**

**2003:** In the fall of 2003, a single spaced plant nursery was established. In the spring, the single spaced plant nursery was evaluated for winter color, freedom from disease, spring color, heading date, and number of inflorescence. Thirty-one clones were moved together before anthesis and designated APR1803. In the summer of 2003, APR1803 was harvested by progeny.

**2005:** In the summer of 2005, APR1803 was established in a progeny turf trial near Salem, NJ. The trial was maintained to increase the incidence of gray leaf spot (*Pyricularia grisea*). Gray leaf spot infected the trial in October. The turf trial was severely damaged by gray leaf spot. Survivors from the most resistant progeny (9 lines) were removed in November and designated APR2036. Five plants from each progeny (45 plants) were established in an isolated crossing block.

**APR2064**

**2004:** In the fall of 2004, a single spaced plant nursery was established. The nursery consisted of five replications with 100 plants in each replication. **2005:** In the spring, the single spaced plant nursery was evaluated for winter color, freedom from disease, spring color, heading date, and number of inflorescence. Thirteen clones (2.6%) were moved together and designated APR2064.

**APR2237**

**2006:** In the summer of 2006, APR2064 and APR2036 were harvested in bulk. In the fall, a single spaced plant nursery was established containing APR2064 and APR2036. **2007:** In the fall, the single spaced plant nursery was evaluated for genetic color, freedom from disease, spring color, heading date, and number of inflorescence. Sixteen clones (3.2%) were selected and moved to an isolated crossing block. The block was designated APR2237.

**2008:** In the fall of 2008, APR2237 was harvested in bulk. The seed was used to establish a turf trial near Salem, NJ. The trial was evaluated turf quality and disease resistance. **2009 – 2010:** APR2237 exhibited acceptable turf quality in the 2008 trial. **2010:** In the fall, a 1,500 plant increase block of APR2237 was established. The seed was harvested in bulk in 2011 and designated APR2237 breeder seed. This seed was used to establish a morphological nursery in the fall of 2011 at the NexGen research facility near Albany, Oregon.

3. APR2237 has been tested for turf quality under lawn conditions near Albany, OR. The data indicates that APR2106 is suitable for turf used in this area.

4. Growth & Morphology	Heading Date (days after January 1) Albany, OR		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2012	2013	2012	2013	2012	2013
Traits						
APR2237	140.33	134.00	57.07	53.43	29.33	32.00
Hawkeye	136.67	129.33	59.13	56.27	33.07	31.97
Amazing	136.67	130.67	61.03	58.00	33.57	33.10
Manhattan II	130.00	125.33	69.90	67.97	35.03	36.67
LSD (.05)	1.79	1.79	3.04	2.41	2.66	2.11
C.V.	0.86	0.90	3.25	2.71	5.37	4.19

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

Variants to be expected and frequency: Less than 1% of the plants exhibit a taller mature plant height with a lighter green color.

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Continued from previous page (23)

## Grass

### APR2237 (Exp)

5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	2012	2013	2012	2013	2012	2013	2012	2013
APR2237	6.25	7.22	6.33	7.39	6.92	7.94	6.25	7.22
Phenom	6.17	7.17	6.58	7.00	6.17	7.94	6.33	7.00
Integra II	6.08	6.94	6.33	6.94	6.08	8.06	6.17	6.94
Manhattan II	4.83	5.33	5.50	6.61	4.83	7.61	5.00	5.94
LSD (.05)	0.42	0.65	0.48	0.50	0.42	0.36	0.53	0.58
C.V.	5.16	7.16	5.64	5.27	5.16	3.45	6.47	6.35

- Scale used to report traits (if appropriate): 1-9 scale; 9=darker, most dense, highest coverage, highest quality.
- Insert additional information for use by inspectors (if any):

6. APR2237 breeder seed is maintained by NexGen Turf Research, Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered class may be established from either Foundation or Breeder seed. Seed production of Foundation and Registered class will be limited to three years. Seed production of Certified class will be limited to five years. Additional years of seed production may be approved by the breeder or an individual designated by the Director of Research, NexGen Turf Research, LLC.
7. If APR2237 is accepted by official seed certifying agencies, Certified seed will be first offered for sale fall of 2014. At this time Plant Variety Protection (PVP) will not be sought.

Date this application was submitted: Jan 02, 2014

Date recommended by the VRB: Mar 19, 2014



# Grass

## ATF1402 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1402  
 Date submitted: \_\_\_\_\_

2. **Line Source 1**

**1993:** Tulsa was inoculated with the endophyte from 3 different sources. **1995:** The inoculated lines were returned in the spring. The plants were grown in isolation and allowed to interpollenate and the group was harvested in bulk. **1996:** A turf trial was established at University of Georgia, Griffin, Georgia. The 3 lines were included in the trial. **1997:** Survivors were removed. 50 plants from each line were returned to NexGen. **1998:** In the summer the 3 lines were harvested in bulk. In the fall, a single spaced plant nursery was established. **1999:** Three populations were formed. **2000:** In the summer of 2000, the 3 populations were harvested in bulk. In the fall, a single spaced plant nursery was established. **2001:** A thirteen clone cross was formed and designated ATF896.

**Line Source 2 & 3**

**1991:** A single spaced plant nursery established near Albany, Oregon. The nursery contained 10 released cultivars. **1992:** Five populations were formed. **1993:** In the fall, a series of topcross blocks were initiated. The cultivar Wyatt was designated as the male parent. **1994:** In the summer of 1994, the topcross blocks were harvested in bulk by line. The seed was used to establish a turf trial in Griffin, Georgia in 1996. **1999:** Survivors were removed. Fifty plants from each line were returned to NexGen and planted in isolated blocks. **2000:** In the summer the lines were harvested in bulk, including ATF906 and ATF907.

**Formation of ATF1402**

**2000:** In the fall, a single spaced plant nursery was established (ATF896, ATF906, ATF907). **2001:** Three crosses were formed. **2002:** In the summer the 3 crosses were harvested in bulk. In the fall, a turf trial was established. **2004:** Survivors from the 3 populations were removed. **2005:** The 3 lines were harvested in bulk. In the fall, a single spaced plant nursery was established. The 3 lines were included in the nursery. **2006:** A sixteen clone cross was formed and designated ATF1335. **2007:** ATF1335 was harvested in bulk. In the fall, ATF1335 was established in a turf trial near Salem, New Jersey and at the University of Arkansas. **2008:** Survivors from the turf plots of the 2007 trials were removed. The plants were returned to NexGen and planted in an isolated block. **2009:** The block was harvested in bulk and designated ATF1402. In the fall, an increase block of ATF1402 was planted in isolation. **2010:** The increase block was harvested in bulk and designated ATF1402, breeder seed.

3. ATF1402 has been tested for turf quality under lawn conditions near Albany, OR. The data indicates that ATF1402 is suitable for turf used in this area.

4. Growth & Morphology	Heading Date (days after March 1)		Mature Plant Height (cm)		Flag Leaf Height (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2012	2013	2012	2013	2012	2013
ATF1402	67.67	51.00	120.83	117.67	56.70	63.73
Rebel II	65.67	51.67	128.40	127.47	61.20	71.40
Rebel Exeda	67.00	51.67	109.43	112.23	50.67	61.17
KY-31	63.33	47.00	146.37	146.20	76.93	89.77
LSD (.05)	1.62	4.99	6.57	5.03	4.18	4.25
C.V.	1.62	6.63	3.46	2.67	4.53	4.00

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

Variants to be expected and frequency: Less than 2% of the plants exhibit a taller mature plant height with a lighter green color.

Continued on next page (26)



Continued from previous page (25)

## Grass

### ATF1402 (Exp)

5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	2012	2013	2012	2013	2012	2013	2012	2013
ATF1402	6.08	6.93	6.25	6.33	8.25	8.17	6.25	6.83
Falcon V	6.00	6.50	6.83	7.27	8.67	8.57	6.67	7.57
Rebel Exeda	6.58	6.57	6.58	6.77	8.42	8.43	6.67	7.20
KY-31	4.67	4.23	4.58	5.00	7.75	7.63	4.50	4.50
LSD (.05)	0.49	0.30	0.58	0.42	0.30	0.27	0.46	0.35
C.V.	5.70	3.31	6.81	4.69	2.69	2.46	5.24	3.69

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

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

6. ATF1402 breeder seed is maintained by NexGen Turf Research, Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered class may be established from either Foundation or Breeder seed. Seed production of Foundation and Registered class will be limited to three years. Seed production of Certified class will be limited to five years. Additional years of seed production may be approved by the breeder or an individual designated by the Director of Research, NexGen Turf Research, LLC.
7. If ATF1402 is accepted by official seed certifying agencies, Certified seed will be first offered for sale fall of 2014. At this time Plant Variety Protection (PVP) will not be sought.

Date this application was submitted: Jan 02, 2014

Date recommended by the VRB: Mar 19, 2014



# Grass

## ATF1426 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Tall Fescue  
 Genus: Festuca Species: arundinacea  
 Experimental designation (s): ATF1426  
 Date submitted: \_\_\_\_\_

2. **1992:** Tall Fescue accessions were obtained from the USDA Plant Germplasm Introduction Research and Testing Center, Pullman, Washington. **1994:** A turf trial was established at University of Georgia, Griffin, GA. **1995:** Survivors were removed after recovery. **1996:** In the summer of 1996, the returned survivors were harvested in bulk. In the fall, a single spaced plant nursery was established. The nursery was replicated 5 times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture, and stem rust resistance (caused by *Puccinia graminis*). Populations were formed in the spring before floral initiation. **1997:** In the summer of 1997, the new populations were harvested in bulk. In the fall, a single spaced plant nursery was established. The nursery was replicated 5 times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture, number of inflorescence and stem rust resistance (caused by *Puccinia graminis*). **1998:** The plant selection field was flailed in early summer and the plants were rated for recovery, genetic color and crown density. New populations were formed. **1999:** In the summer of 1999, the new populations were harvested in bulk. In the fall, a single spaced plant nursery was established. The nursery was replicated 5 times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture, number of inflorescence and stem rust resistance (caused by *Puccinia graminis*). **2000:** The plant selection field was flailed in early summer and the plants were rated for recovery, genetic color and crown density. New populations were formed. **2001:** In the summer of 2000, the new populations were harvested in bulk. In the fall, a single spaced plant nursery was established. The nursery was replicated 5 times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture, number of inflorescence and stem rust resistance (caused by *Puccinia graminis*). **2002:** The plant selection field was flailed in early summer and the plants were rated for recovery, genetic color and crown density. New populations were formed. **2003:** In the summer of 2003, the new populations were harvested in bulk. In the fall, the populations were established in a turf trial near Salem, NJ. The trial was maintained to increase the incidence of brown patch (caused by *Rhizoctonia solani*). **2005:** Survivors from the turf trial were removed and 50 plants from each line were established in isolation. **2006:** The lines were harvested in bulk. In the fall, a single spaced plant nursery was established. The nursery was replicated 5 times with 100 plants per replication. The nursery was evaluated for crown density, genetic color, leaf texture, number of inflorescence and stem rust resistance (caused by *Puccinia graminis*). **2007:** The plant selection field was flailed in early summer and the plants were rated for recovery, genetic color and crown density. The population ATF1426 was formed. **2008:** In the summer of 2008, ATF1426 was harvested in bulk. In the fall, an increase block of ATF1426 was planted in isolation. **2009:** The increase block was harvested in bulk and designated ATF1426, breeder seed.
3. ATF1426 has been tested for turf quality under lawn conditions near Albany, OR. The data indicates that ATF1426 is suitable for turf used in this area.

4. Growth & Morphology	Heading Date (days after March 1) Albany, OR		Mature Plant Height (cm) Albany, OR		Flag Leaf Height (cm) Albany, OR	
	2012	2013	2012	2013	2012	2013
ATF1426	64.33	46.33	120.63	116.47	58.30	63.77
Rebel II	65.67	51.67	1208.40	127.47	61.20	71.40
Rebel Exeda	67.00	51.67	109.43	112.23	50.67	61.17
KY-31	63.33	47.00	146.37	146.20	76.93	89.77
LSD (.05)	1.62	4.99	6.57	5.03	4.18	4.25
C.V.	1.62	6.63	3.46	2.67	4.53	4.00

Data collected from: Spaced single plants X Plants in rows/solid seeding  
 Variants to be expected and frequency: Less than 2% of the plants exhibit a taller mature plant height with a lighter green color.

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Continued from previous page (27)

## Grass

### ATF1426 (Exp)

5. Turf Use	Genetic Color		Density		Cover		Turf Quality	
	Albany, OR		Albany, OR		Albany, OR		Albany, OR	
	2012	2013	2012	2013	2012	2013	2012	2013
ATF1426	7.00	7.37	6.25	6.40	8.33	7.67	6.75	6.93
Falcon V	6.00	6.50	6.83	7.27	8.67	8.57	6.67	7.57
Rebel Exeda	6.58	6.57	6.58	6.77	8.42	8.43	6.67	7.20
KY-31	4.67	4.23	4.58	5.00	7.75	7.63	4.50	4.50
LSD (.05)	0.49	0.30	0.58	0.42	0.30	0.27	0.46	0.35
C.V.	5.70	3.31	6.81	4.69	2.69	2.46	5.24	3.69

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

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

6. ATF1426 breeder seed is maintained by NexGen Turf Research, Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered class may be established from either Foundation or Breeder seed. Seed production of Foundation and Registered class will be limited to three years. Seed production of Certified class will be limited to five years. Additional years of seed production may be approved by the breeder or an individual designated by the Director of Research, NexGen Turf Research, LLC.
7. If ATF1426 is accepted by official seed certifying agencies, Certified seed will be first offered for sale fall of 2014. At this time Plant Variety Protection (PVP) will not be sought.

Date this application was submitted: Jan 02, 2014      Date recommended by the VRB: Mar 19, 2014

# Grass

## Allsport 4 945X (Exp)

1. Variety name: Allsport 4 Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): 945X  
 Date submitted: January 8, 2014
  
2. Allsport 4 perennial ryegrass was selected by Novel AG, Inc. in Saint Paul, Oregon from the progenies of plants selected for medium early maturity, an intermediate growth habit, strong presence of plant tillering and improved crown density, very dark green color, improved seedhead production and improved stem rust resistance. Allsport 4 is estimated to be based 75% on plants selected from Playfast perennial ryegrass and 25% from Allsport 3 perennial ryegrass and cycled for improved for seed production and uniformity. Seeds from plants within the Playfast improvement populations were evaluated in a laboratory and plants (1,890) were subsequently established in a spaced planted nursery for evaluation. This population was harvested as individual plants with established identity. The 15 highest individual yielding plants seeds were used to establish seedlings for further evaluation. Eight plants were further identified as producing very good seed weights with high bulk density and improved germination rates. These plants were cloned from their tissue and planted for observation in space planted clonal rows inter-planted with plants from Allsport 3 and Playfast for pollen contribution. Seed was harvested from each of the clonal rows and was established in an additional space planted nursery for evaluation of seedling uniformity. In the spring of 2010 very few plants were removed from this population. All of the seedlings in this nursery were allowed to inter-pollinate and mature seed. At or near maturity approximately 5% of the population was removed to maximize stem rust resistance of this population. The remaining 532 plants were then bulk harvested and declared the breeder seed of Allsport 4 (945X), July of 2010.
  
3. Allsport 4 will be promoted for use as a turfgrass. This variety has been tested for turf use in St. Paul, OR and appears to be adapted to this climatic condition and will be made available for sale in climates represented by this locality

4. Growth & Morphology	Heading Date St. Paul, OR		Plant Height St. Paul, OR		Flag Leaf Length St. Paul, OR	
	2011	2012	2011	2012	2011	2012
Allsport 4	May 28	May 17	57.3	45.0	12.4	13
Playfast	June 2	May 17	68.2	54.4	15.3	14.3
Allsport 3	June 2	May 19	68.7	71.4	15.9	13.5
Pinnacle	May 18	May 17	83.2	62.3	18.1	14.3
Linn	May 16	May 13	106.1	86.4	23.5	21.8
LSD (.05)	2.1	2.1	3.5	4.0	1.6	2.1
s.e.	1.3	1.1	1.8	2.0	.79	1.1
Data collected from:	Spaced single plants		X	Plants in rows/solid seeding		
Variants to be expected and frequency:	The frequency of variants is <5% and may be taller or lighter colored plants. Should these plants occur during Foundation seed production they should be removed.					

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**Grass****Allsport 4  
945X (Exp)**

5. Turf Use	Turf Quality		Genetic Color		Turf Density		Turf Texture	
	St. Paul, OR		St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2011/2012	2012/2013	2011/2012	2012/2013	2011/2012	2012/2013	2011/2012	2012/2013
Allsport 4	6.2	6.0	6.3	6.2	6.3	6.2	5.9	6.2
Playfast	6.0	6.0	6.1	6.1	5.9	6.2	5.7	6.1
Playoff	6.0	5.7	5.5	5.4	5.9	6.0	5.9	6.0
Allsport 3	6.4	6.1	6.2	5.9	5.7	6.1	6.2	6.4
Linn	2.3	2.3	1.8	2.7	3.1	2.9	3.2	2.6
LSD (.05)	1.3	1.8	2.7	1.9	3.1	2.7	2.9	2.3
High-Low Score	2.3-6.5	2.3-6.6	1.8-6.6	2.7-6.4	3.1-6.5	2.9-6.7	3.2-6.2	2.6-6.6

•Scale used to report traits (if appropriate):1-9, 9= best turf quality, 9=darkest green, 9=most dense, 9= finest texture.

- Breeder seed of Allsport 4 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.
- Certified seed is anticipated to be available in July of 2014. PVP certification option has not been determined at this time.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Apr 17, 2014

# Grass

## Playfast HX-091 (Exp)

1. Variety name: Playfast Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): HX-091  
 Date submitted: January 8, 2014

2. Playfast perennial ryegrass was selected by Novel AG, Inc. in Saint Paul, Oregon from the progenies of plants selected for medium early maturity, an intermediate growth habit, strong presence of plant tillering and improved crown density, very dark green color, improved seedhead production and improved stem rust resistance. Playfast is estimated to be based on populations improved entirely from the original plants of Allsport perennial ryegrass outcrossed with pollen contributions of a ryegrass population selected from a farm road near St. Paul, OR and later improved by selection within each population with further pollen contributions of plants selected from Slugger, Allsport 2, Playoff, and Applaud perennial ryegrasses. The individual contributions to Playfast can be stated as 25% selected from Allsport perennial ryegrass, 25% selected from feral plants collected near St. Paul, OR and of otherwise unknown origin, 15% selected from each of Playoff and Applaud, and 10% selected from each of Slugger and Allsport 2 and cycled in several generations of population improvement. A final spaced plant nursery population was established in 2006 and contained 3,200 seedlings based on the progenies of 16 plants cycled within these populations. During the spring of 2008, this nursery was continually evaluated and rogued to improve overall uniformity. Very few (less than 2%) of these plants were discarded prior to anthesis and the balance of the plants were allowed to inter-pollinate and set seed. At harvest time the nursery was evaluated this population was bulk harvested and declared the breeder seed of Playfast, July 2008.

3. Playfast will be promoted for use as a turfgrass. This variety has been tested for turf use in St. Paul, OR and appears to be adapted to this climatic condition and will be made available for sale in climates represented by this locality

4. Growth & Morphology Traits	Heading Date St. Paul, OR		Plant Height St. Paul, OR		Flag Leaf Length St. Paul, OR	
	2011	2012	2011	2012	2011	2012
	Playfast	June 2	May 17	68.2	54.4	15.3
Allsport	June 6	May 19	49.2	48.6	12	11.5
Allsport 3	June 2	May 19	68.7	71.4	15.9	13.5
Pinnacle	May 18	May 17	83.2	62.3	18.1	14.3
Linn	May 16	May 13	106.1	86.4	23.5	21.8
LSD (.05)	2.1	2.1	3.5	4.0	1.6	2.1
s.e.	1.3	1.1	1.8	2.0	.79	1.1

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

Variants to be expected and frequency:	The frequency of variants is <2% and may be taller or lighter colored plants. Should these plants occur during Foundation seed production they should be removed.
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**Grass**  
**Playfast**  
**HX-091 (Exp)**

5. Turf Use	Turf Quality		Genetic Color		Turf Density		Turf Texture	
	St. Paul, OR		St. Paul, OR		St. Paul, OR		St. Paul, OR	
	2011/2012	2012/2013	2011/2012	2012/2013	2011/2012	2012/2013	2011/2012	2012/2013
Playfast	6.0	6.0	6.1	6.1	5.9	6.2	5.7	6.1
Playoff	6.0	5.7	5.5	5.4	5.9	6.0	5.9	6.0
Allsport 3	6.4	6.1	6.2	5.9	5.7	6.1	6.2	6.4
Allsport 2	5.9	5.7	5.5	5.3	5.9	5.7	5.7	6.1
Linn	2.3	2.3	1.8	2.7	3.1	2.9	3.2	2.6
LSD (.05)	1.3	1.8	2.7	1.9	3.1	2.7	2.9	2.3
High-Low Score	2.3-6.5	2.3-6.6	1.8-6.6	2.7-6.4	3.1-6.5	2.9-6.7	3.2-6.2	2.6-6.6

●Scale used to report traits (if appropriate):1-9, 9= best turf quality, 9=darkest green, 9=most dense, 9= most uniform.

6. Breeder seed of Playfast 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 2014. PVP certification option has not been determined at this time.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Apr 17, 2014

# Grass

## PPG-FRC 103 (Exp)

1. Variety name: N/A Kind: Chewings Fescue  
 Genus: Festuca Species: rubra fallax  
 Experimental designation (s): PPG-FRC 103  
 Date submitted: January 7, 2014
2. The germplasm used to develop PPG-FRC 103 chewings fescue traces 12.5% to selections from Rushmore, 12.5% from selections from Radar, 12.5% from selections from Longfellow II, 12.5% to selections from Compass, 12.5% to selections from Ambrose and 12.5% to selections from Columbra II. Plants were selected for high number of reproductive tillers, uniform, medium-early maturity and medium green color. Breeder seed of the variety was first produced in 2010.
3. PPG-FRC 103 has been tested for turf use under turf management in New Jersey and western Oregon. The data indicate that PPG-FRC 103 is adequate for turf use in these areas.

4. Growth & Morphology	Heading Date (Day of Year) 2012		Plant Height (cm) 2012		Flag Leaf Height (cm) 2012	
	Jefferson, OR	Salem, OR	Jefferson, OR	Salem, OR	Jefferson, OR	Salem, OR
PPR-FRC 103	139.1	140.3	70.1	77.6	21.3	24.8
Cascade	137.0	134.9	78.9	87.2	24.9	28.3
Compass	137.6	134.1	69.5	73.1	18.6	23.8
Longfellow II	140.5	139.5	76.2	80.2	23.8	26.2
LSD (.05)	1.3	2.7	5.2	5.1	2.8	2.7
CV (%)	0.5	1.0	5.0	3.2	8.9	5.2

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

Variants to be expected and frequency: A small percentage (<0.25%) of the plants are taller, coarser bladed and lighter green than the rest of the population.

5. Turf Use	Turf Quality		Average Cover		Average Genetic Color		Average Density	
	2012		2012		2012		2012	
	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR
PPG-FRC 103	4.25	5.42	5.50	7.50	3.83	5.72	4.83	4.25
Intrigue II	4.33	5.42	5.75	7.75	4.00	5.44	4.83	4.33
Koket	4.33	3.92	5.67	6.58	3.42	4.11	5.08	3.67
Radar	3.92	6.08	4.92	7.83	3.83	6.11	4.75	5.08
LSD (.05)	0.90	0.54	1.39	0.63	0.58	0.38	0.92	0.58
CV (%)	14.28	7.68	18.36	6.91	10.76	5.15	12.14	9.65

●Scale used to report traits: 1-9; 9= high quality, most cover, dark green, most dense

6. Breeder seed of PPG-FRC103 is maintained under controlled conditions by Peak Plant Genetics, Jefferson, Oregon. Foundation stands may only be planted from Breeder seed. Registered class fields may be established from either Foundation or Breeders 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. Certified fields will be limited to seven years of seed production.
7. PPG-FRR certified seed will first be available in the spring of 2014. Plant Variety Protection has not been applied for at this time.

Date this application was submitted: Jan 07, 2014

Date recommended by the VRB: Mar 28, 2014



# Grass

## PPG-FRR 103 (Exp)

1. Variety name: N/A Kind: Strong Creeping Red Fescue  
 Genus: Festuca Species: rubra rubra  
 Experimental designation (s): PPG-FRR 103  
 Date submitted: January 7, 2014

2. The germplasm used to develop PPG-FRR 103 strong creeping red fescue traces 25% to selections from the variety Epic, 25% to selections from Cardinal, 25 % selections from Cindy Lou and 25% from the variety Navigator II. Plants were selected for high number of reproductive tillers, uniform, medium-early maturity and medium green color. Breeder seed of the variety was first produced in 2010.

3. PPG-FRR 103 has been tested for turf use under turf management in western Oregon and New Jersey. The data indicate that PPG-FRR 103 is suitable for turf use in these areas.

4. Growth & Morphology Traits	Heading Date (Day of Year) 2012		Plant Height (cm) 2012		Flag Leaf Height (cm) 2012	
	Jefferson, OR	Salem, OR	Jefferson, OR	Salem, OR	Jefferson, OR	Salem, OR
	PPG-FRR 103	139.8	138.9	55.3	56.9	15.5
Cardinal	139.9	140.4	58.4	59.8	16.4	16.1
Pennlawn	143.9	145.7	76.6	80.5	28.5	26.8
Boreal	146.2	145.6	65.7	69.9	23.8	24.8
LSD (.05)	2.9	2.5	2.9	4.2	1.3	1.6
CV (%)	1.1	0.9	8.0	11.4	7.4	9.6

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

Variants to be expected and frequency: A small percentage (<0.5%) of the plants are taller, coarser bladed and lighter green than the rest of the population.

5. Turf Use	Turf Quality		Average Cover		Average Genetic Color		Average Density	
	2012		2012		2012		2012	
	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR	Salem, NJ	Albany, OR
PPG-FRR 103	4.83	6.08	5.92	7.00	4.25	5.78	5.42	5.25
Garnet	4.92	5.75	5.17	6.75	4.17	5.61	6.25	4.83
Cindy Lou	4.67	5.92	5.25	7.42	4.25	5.44	4.67	5.42
Boreal	4.25	5.08	5.83	6.92	4.17	4.61	4.42	4.75
LSD (.05)	0.90	0.54	1.39	0.63	0.58	0.38	0.92	0.58
CV (%)	14.28	7.68	18.36	6.91	10.76	5.15	12.14	9.65

● Scale used to report traits: 1-9; 9= high quality, most cover, dark green, most dense

6. Breeder seed of PPG-FRR 103 is maintained under controlled conditions by Peak Plant Genetics, Jefferson, Oregon. Foundation stands may only be planted from Breeder seed. Registered class fields may be established from either Foundation or Breeders 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. Certified fields will be limited to seven years of seed production.

7. PPG-FRR certified seed will first be available in the spring of 2014. Plant Variety Protection has not been applied for at this time.

Date this application was submitted: Jan 07, 2014

Date recommended by the VRB: Mar 28, 2014



# Grass

## PSAR09-2 (Exp)

1. Variety name: \_\_\_\_\_ Kind: Annual Ryegrass  
 Genus: Lolium Species: multiflorum  
 Experimental designation (s): PSAR09-2  
 Date submitted: December 18, 2013

2. PSAR09-2 is a thirteen clone advanced generation synthetic variety developed at Pickseed USA, Inc. (PS), Albany, OR. The thirteen parental clones of the variety were allowed to interpollinate with each other in May 2009. The parents were selected for their finer texture, darker green foliage color, and shorter mature plant height, relative to common diploid annual ryegrass accessions. The parents also exhibited early/medium reproductive heading dates. After seed maturation in early July 2009, it was harvested by separate maternal parents. Thus, thirteen half sib families had been created. Based on seed yield of each parent, seed was propagated for only six half sib families to form the next generation of multiplication. In August 2009, approximately 100 progeny plants of each of the six families were raised and transplanted to a field nursery. In early spring 2010, individuals in the nursery were evaluated. Approximately 13% of the progeny were rogued from the original 600 established in the nursery. Rather equal roguing occurred between and within the half sib families. Seed of the remaining progeny in the nursery was bulk harvested in July 2010 (observing good uniformity in mature plant morphology between half sib families). The bulk seed harvested was designated as breeder seed for the variety.

3. PSAR-09-2 has been tested for turf performance traits in overseeding applications in Tucson, AZ; Stillwater, OK; and Raleigh, NC.

4. Growth & Morphology	Heading Date		Plant Height (cm)		Flag Leaf Length (cm)	
	Albany, OR		Albany, OR		Albany, OR	
Traits	2011	2012	2011	2012	2011	2012
PSAR09-2	May 22	May 16	133.3	94.9	25.3	19.9
Panterra	May 20	May 13	130.1	100.3	20.8	18.7
Gulf	May 17	May 12	139.0	104.2	25.6	23.3
TransFix (IR)	May 23	May 19	99.4	80.5	21.7	16.5
LSD (.05)	4 days	3 days	18.9	15.5	5.7	6.1
S.E.	1 day	1 day	5.2	4.2	1.6	1.7

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

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

5. Turf Use	Percent Cover		Foliage Color		Texture		Turf Quality	
	2012		2013		2013		2013	
	A	B	A	B	A	B	A	B
PSAR09-2	81	73	5.3	7.0	5.3	6.0	5.3	7.0
Panterra	81	68	5.0	6.0	5.3	6.0	5.1	7.0
Gulf	79	62	5.0	7.0	4.0	6.0	4.5	6.0
TXR	84	58	5.0	7.0	5.5	7.0	5.3	7.0
LSD (.05)	7.4	17.0	0.7	0.9	0.9	2.0	0.3	0.3
Range	1-88	48-73	1.0-7.8	5.0-8.0	2.5-8.3	6.0-8.0	2.5-8.1	6.0-7.0

•Scale used to report traits (if appropriate): Percent cover scored approximately one month after overseeding. 1-9 subjective scale with 9 = darkest green foliage color, fine leaf texture, and ideal quality.

•Insert additional information for use by inspectors (if any): None

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

6. Breeder seed of PSAR09-2 was first produced in 2010 by Pickseed USA, Inc. (PS), Albany, OR. A record sample of this seed is maintained at PS in cold, dry storage. During the life of the variety, additional breeder seed will be produced as needed to reconstitute the cultivar under the supervision of PS. Foundation, Registered, and Certified classes of seed production are permitted. Foundation fields may only be established using breeder seed. Registered fields may be established from either breeder or foundation seed. Certified fields may be established from breeder, foundation, or registered seed. Foundation, Registered, and Certified class fields will be limited to one harvest.

7. Certified seed is anticipated to be available in summer 2014. A decision for filing a P.V.P. application has not been made at this time.

Date this application was submitted: Dec 18, 2013

Date recommended by the VRB: Mar 27, 2014



# Grass

## Milagro PST-K10-108S (Exp)

1. Variety name: Milagro Kind: Kentucky Bluegrass  
 Genus: Poa Species: pratensis  
 Experimental designation (s): PST-K10-108S  
 Date submitted: January 7, 2014

2. Milagro (PST-K10-108S) Kentucky bluegrass originated as a single highly apomictic Fifth generation aberrant tracing to the hybrid PST-H6-245 selected from the cultivar Unique open pollinated in a green house near Hubbard, Oregon in the spring of 1995. In July 2006 seed from aberrant selection PST-1A2-1280 was germinated and grown in a greenhouse salt bath at 6000 ppt. of Instant Ocean saltwater aquarium mixture. After two months the five best seedlings were transplanted into cell packs and later transplanted into the field in November of 2006. In the late spring of 2007 PST-07S-86 was selected as a morphologically distinct hybrid for good seed head number, good floret fertility, a dark blue green color, and good resistance to stripe rust (*Puccinia striiformis*), and ergot (*Claviceps purpurea*). Seed was harvested from 07S-86 and established in progeny turf trials in Oregon and North Carolina in the fall of 2007, and 5 spaced plants of 07S-86 were clonally propagated into the field in Oregon in fall of 2007 for seed increase and further evaluation. After two years of experimental evaluation a spaced plant apomixis grow out of 95 seedlings and 5 clones for comparison was established in the fall of 2009 to determine apomixis level and uniformity. In the summer of 2010 94 of the original 95 seedlings were observed to be identical to the clones equating to an apomixis level greater than 95% and 8.5 lbs of breeder seed of PST-K10-108S was harvested.

3. Milagro was tested for turf use in North Carolina and Oregon.

4. Growth & Morphology Traits	Heading Date – Julian Days		Plant Height (cm)		Flag Leaf Height (cm)	
	2012 Trial	2011 Trial	2012 Trial	2011 Trial	2012 Trial	2011 Trial
	2013 data	2013 Data	2013 data	2013 data	2013 data	2013 data
Milagro	112	105	74.6	74.8	28.4	38.8
Right	109	111	68.6	69.3	36.6	37.1
Jump Start	112	110	85.5	85.2	51.3	45.3
Full Moon	107	102	76.1	75.9	35.3	40.6
LSD (0.05)	4 days	3 days	2.3	1.8	1.8	1.8
CV (%)	2.2	2.7	9.8	7.6	16.4	14.3

Data collected from: Plants in rows/solid seeding 2011 & 2012

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

Continued on next page (37)

**Grass**  
**Milagro**  
**PST-K10-108S (Exp)**

5.Turf Use  Entry	Turf Quality <sup>1</sup>		Winter Color		Traffic Damage*		Oregon Drought damage*		
	Oregon 2010 trial	N.C. 2011 trial	Oregon* 2010 trial	N.C. <sup>2</sup> 2012 trial	Oregon 2010 trial	N.C. 2010 trial	2010 Trial		
	2012	2012	2013	2013	20 passes 2013	102 Passes 2012	2011 42 days no/H2O	2012 44 days no/H2O	2013 39 days no/H2O
Jump Start	6.3	5.7	84.7	7.7 <sup>2</sup>	91.5	87.6	45.9	51.4	40.2
Milagro	4.5	5.2	74.7	5.7	78.1	67.5	32.5	21.3	20.6
Right	5.8	4.9	74.5	4	82.6	78.9	40.5	24.6	1.2
Moonlight SLT	5.3	3.5	57.5	7.3	73.9	68.3	24.7	10.5	6.0
LSD (0.05)	0.7	0.8	8.4	1.8	15.1	10.6	16.6	16.5	12.5
CV (%)	7.9	11.4	7.2	21.9	11.6	8.5	31.7	36.0	76.7

<sup>1</sup>: 1-9: 9 =ideal, <sup>2</sup> 1-9 9=darkest green

\*= Percent of green cover of live/active tissue evaluated using digital image analysis

6. Pure-Seed Testing, Inc. maintains Breeder seed in Oregon and will regenerate as necessary. Seed production of Milagro 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 2015. Variety will be entered into the Certification program. A PVP will not be sought.

Date this application was submitted: Jan 07, 2014

Date recommended by the VRB: Apr 17, 2014



# Grass

## PST-4NY (Exp)

1. Variety name: \_\_\_\_\_ Kind: Hard Fescue  
 Genus: Festuca Species: longifolia  
 Experimental designation: PST-4NY  
 Date submitted: 8 January 2014

2. PST-4NY was developed from high-yielding plants of 'Nordic' hard fescue. PST-4NY has a taller mature plant height than Nordic. Two cycles of phenotypic recurrent selection for medium maturity, medium-tall plant height, dark green color, and high seed yield were conducted in Oregon. Breeder seed was produced in 2005.
3. PST-4NY is adapted for turf use. It has been trialed in Oregon, North Carolina, New Jersey, Illinois, Kentucky, and Massachusetts.

4. Growth & Morphology Traits	Heading Date – Julian Days Hubbard, OR		Plant Height (cm) Hubbard, OR		Top Flag Leaf Height (cm) Hubbard, OR	
	2009	2007	2010	2009	2010	2009
PST-4NY	111.0	111.3	88.3	81.5	40.0	36.7
Aurora Gold	111.0	113.7	90.2	71.6	41.2	31.7
Soil Guard	111.7	113.7	84.1	77.4	36.9	30.8
Nordic	111.3	112.3	84.1	70.8	39.4	28.7
LSD (0.05)	3.4	2.9	1.8	2.3	1.8	1.8
CV (%)	1.8	1.6	6.8	9.8	14.1	17.3

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

Variants to be expected and frequency: None observed

5. Turf Use	Turf Quality		Genetic Color		Density		Drought (% Green Cover)	
	Urbana, IL 2012	Amherst, MA 2012	Urbana, IL 2012	Berry, KY 2012	Salem, NJ 2012	Albany, OR 2012	Hubbard, OR 2012 2011	
PST-4NY	6.8	5.3	6.8	7.0	5.8	3.4	55.9	22.8
Bighorn GT	7.0	5.3	7.0	6.9	5.2	3.6	38.7	21.8
Soil Guard	6.7	4.9	6.7	6.3	5.8	3.4	33.3	15.7
Nordic	--	--	--	--	--	--	44.1	6.5
Firefly	6.5	5.9	6.5	6.0	6.2	3.8	--	--
LSD (0.05)	0.4	0.5	0.4	0.7	0.9	0.6	20.7	14.1
CV (%)	4.4	6.5	4.6	9.4	12.1	9.6	33.8	56.8

Scale used to report traits (if appropriate): 1-9: 9 =ideal, darkest green, most dense; drought after 30 days

6. Pure-Seed Testing, Inc. maintains Breeder seed of PST-4NY in Oregon and will regenerate as necessary. Seed production of PST-4NY is limited to three generations of increase from Breeder seed: one each of Foundation, Registered, and Certified. Age of stand is limited to six years for Foundation and Registered and seven years for Certified. Additional years of seed production may be approved by the breeder.
7. Certified seed is anticipated for sale in 2015. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 31, 2014



# Grass

## PST-R4TC (Exp)

1. Variety name: \_\_\_\_\_ Kind: Chewings Fescue  
 Genus: Festuca Species: rubra commutata  
 Experimental designation: PST-R4TC  
 Date submitted: 8 January 2014

2. PST-R4TC was developed for turf use. The parents of PST-R4TC were selected for heat and drought tolerance during the summer of 2005 in North Carolina. Selected parents interpollinated in Oregon and progeny were evaluated in turf trials in OR and NC for two years. The best clones were propagated the fall of 2008 and combined. Breeder seed was produced in 2009. Plants that produced Breeder seed traced to 38% 'Treazure', 34% European collections, and 28% to PST-4CHU-01, which traced to a collection from Claremont, CA and 'Shadow II'.

3. PST-R4TC is adapted for turf use. It has been trialed in Oregon, North Carolina, New Jersey, Illinois, Kentucky, and Massachusetts.

4. Growth & Morphology Traits	Heading Date – Julian Days Hubbard, OR		Plant Height (cm) Hubbard, OR		Flag Leaf Blade Length (cm) Hubbard, OR	
	2011	2010	2011	2010	2011	2010
	PST-R4TC	117.7	108.0	93.7	96.9	13.1
Enchantment	125.3	111.7	94.8	98.7	14.0	10.0
Treazure II	121.7	112.7	95.3	97.4	10.8	8.6
Shadow II	114.7	118.7	98.0	98.3	13.7	7.9
LSD (0.05)	3.7	4.2	2.7	2.4	0.8	0.7
CV (%)	2.0	2.3	9.9	8.6	22.4	27.8

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

Variants to be expected and frequency: None observed

5. Turf Use	Turf Quality		Genetic Color		Density		Dollar Spot	
	Urbana, IL	Amherst, MA	Urbana, IL	Berry, KY	Salem, NJ	Albany, OR	Adelphia, NJ	Adelphia, NJ
	2012	2012	2012	2012	2012	2012	2013	2012
PST-R4TC	6.3	5.3	6.3	5.6	4.8	4.5	7.7	8.3
Longfellow II	6.4	5.8	6.7	6.1	5.2	4.7	7.3	8.0
Culumbra II	6.5	5.3	6.7	5.7	5.0	4.7	5.7	5.3
Enchantment	6.3	5.3	6.5	4.8	5.2	4.0	6.3	3.7
LSD (0.05)	0.4	0.5	0.4	0.7	0.9	0.6	1.5	2.4
CV (%)	4.4	6.5	4.6	9.4	12.1	9.6	19.1	--

Scale used to report traits (if appropriate): 1-9: 9 =ideal, darkest green, most dense, no disease

6. Pure-Seed Testing, Inc. maintains Breeder seed of PST-R4TC in Oregon and will regenerate as necessary. Seed production of PST- R4TC is limited to three generations of increase from Breeder seed: one each of Foundation, Registered, and Certified. Age of stand is limited to six years for Foundation and Registered and seven years for Certified. Additional years of seed production may be approved by the breeder.

7. Certified seed is anticipated for sale in 2015. PVP will not be sought.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 31, 2014



# Grass

## Pasco

### RAD-PR53R, RAD-PR53 (Exp)

1. Variety name: Pasco Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): RAD-PR53R, RAD-PR53  
 Date submitted: January 6, 2013

2. Pasco was developed by Radix Research, Inc. beginning with individual plant selections from various nurseries located at the Radix Research Station near Corvallis, Oregon. Pasco originates from the varieties Pershing (26.7%), Palmer 4 (20%), Baccarat (20%), Prelude GLS (20%) and Vail II (13.3%). Plants were selected on the basis of compact crowns, dark and vibrant color, general freedom from disease, upright growth habit and the general appearance of high seed yield capacity. Subsequently, one cycle of seed selection conforming to the original selection criteria were used to create an isolated crossing block that produced the first breeder seed in 2009.

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

4. Growth & Morphology Traits	Total Plant Height (cm)		Flag Leaf Length (cm)		Heading Date	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2010	2011	2010	2011	2010	2011
Pasco	60.9	66.7	16.1	15.8	June 1	June 4
Manhattan II	67.2	75.8	16.0	15.7	June 2	June 5
Pinnacle	65.6	74.4	16.5	15.8	May 31	June 3
Manhattan	65.0	70.5	17.6	17.4	June 9	June 15
Elka	52.1	55.4	13.9	13.4	June 17	June 22
LSD (.05)	3.4	3.1	1.8	1.5	5.0 Days	4.8 Days
CV%	10.0	9.6	13.2	12.1	14.9	14.4

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

Variants to be expected and frequency: Approximately 1% of the population may exhibit lighter green color and a total plant height 6% to 9% taller than the population average. Additionally, approximately 1% of the population may exhibit a total plant height 12% to 15% shorter than the population average.

5. Turf Use	Turf Quality		Genetic Color		Leaf Texture		Turf Density	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2010	2011	2010	2011	2010	2011	2010	2011
Pasco	6.6	6.4	6.8	6.4	6.5	6.8	6.3	6.2
Palmer IV	6.0	5.7	6.6	6.2	5.9	6.1	5.9	5.7
Presidio	5.6	5.4	6.6	6.4	5.9	6.0	5.8	5.4
Palmer 3	4.5	3.8	5.0	4.8	5.4	5.4	5.2	4.7
LSD (.05)	0.6	0.4	0.9	0.7	0.7	0.7	0.8	0.6
CV%	11.9	10.7	12.8	11.7	12.8	12.3	12.4	11.6

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

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## **Grass**

### **Pasco**

#### **RAD-PR53R, RAD-PR53 (Exp)**

6. Breeder Seed of Pasco was first produced in 2009. Breeder Seed is maintained by Radix Research, Inc, Junction City, Oregon. A sample of the original Breeder Seed has been retained in cold storage for future use. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Breeder or Foundation Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by two additional harvests of Certified production. Certified class fields will be limited to five years of seed production. Exceptions may be granted by Radix Research, Inc. Cascade International Seed Company has been licensed to produce and sell Pasco.
7. Certified seed is anticipated to be available in the fall of 2014. An application for PVP will not be applied for.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 04, 2014



# Grass

## RAD-PR62, PR62 (Exp)

1. Variety name: Not yet named Kind: Perennial Ryegrass  
 Genus: Lolium Species: perenne  
 Experimental designation (s): RAD-PR62, PR62  
 Date submitted: January 6, 2013
  
2. RAD-PR62 was developed by Radix Research, Inc. beginning with individual plant selections from various nurseries located at the Radix Research Station near Corvallis, Oregon. RAD-PR62 originates from the varieties All Star2 (21.1%), Bacarrat (15.8%), Kokomo (15.8%), Winterstar (10.5%), Pizzaz (10.5%) and Vail II (10.5%) as well as naturalized selections collected at Fort McHenry in Baltimore, MD in 2003 (15.8%). Plants were selected for persistent and intact crowns after 3 years in a non-irrigated setting, high seed yield capacity for 3 successive harvests in a non-irrigated setting, and general freedom from disease. Subsequently, two cycles of seed selections were used to create an isolated crossing block that produced the first breeder seed in 2009.
  
3. RAD-PR62 has exhibited good turf performance and adaptation in western Oregon. It will be made available for sale in climates represented by this locale.

4. Growth & Morphology Traits	Total Plant Height (cm)		Flag Leaf Length (cm)		Heading Date	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2010	2011	2010	2011	2010	2011
RAD-PR62	66.3	73.5	17.7	17.3	May 31	June 3
Manhattan II	67.2	75.8	16.0	15.7	June 2	June 5
Pinnacle	65.6	74.4	16.5	15.8	May 31	June 3
Manhattan	65.0	70.5	17.6	17.4	June 9	June 15
Elka	52.1	55.4	13.9	13.4	June 17	June 22
LSD (.05)	3.4	3.1	1.8	1.5	5.0 Days	4.8 Days
CV%	10.0	9.6	13.2	12.1	14.9	14.4

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

Variants to be expected and frequency: Approximately 1.5% of the population may exhibit lighter green color and a total plant height 6% to 9% taller than the population average. Additionally, approximately 2% of the population may exhibit a total plant height 12% to 15% shorter than the population average.

5. Turf Use	Turf Quality		Genetic Color		Leaf Texture		Turf Density	
	Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon		Corvallis, Oregon	
	2010	2011	2010	2011	2010	2011	2010	2011
RAD-PR62	5.9	6.0	6.3	6.0	5.8	6.0	6.0	6.0
Palmer IV	6.0	5.7	6.6	6.2	5.9	6.1	5.9	5.7
Presidio	5.6	5.4	6.6	6.4	5.9	6.0	5.8	5.4
Palmer 3	4.5	3.8	5.0	4.8	5.4	5.4	5.2	4.7
LSD (.05)	0.6	0.4	0.9	0.7	0.7	0.7	0.8	0.6
CV%	11.9	10.7	12.8	11.7	12.8	12.3	12.4	11.6

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

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## Grass

### **RAD-PR62, PR62 (Exp)**

6. Breeder Seed of RAD-PR62 was first produced in 2009. Breeder Seed is maintained by Radix Research, Inc, Junction City, Oregon. A sample of the original Breeder Seed has been retained in cold storage for future use. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Breeder or Foundation Seed. Certified fields may be established from Breeder, Foundation, or Registered Seed. Foundation and Registered class fields will be limited to three harvests of Foundation/Registered production followed by five additional harvests of Certified production. Certified class fields will be limited to eight years of seed production. Exceptions may be granted by Radix Research, Inc. Lewis Seed Company has been licensed to produce and sell RAD-PR62.
7. Certified seed is anticipated to be available in the fall of 2014. An application for PVP will not be applied for.

Date this application was submitted: Jan 08, 2014

Date recommended by the VRB: Mar 04, 2014

