

# MISSOURI SEED DIRECTORY

## 2016 FALL



### For Fall Seeded Crops

Winter Barley

Hard Red Winter Wheat

Soft Red Winter Wheat

Winter Triticale

### THE MISSOURI CROP IMPROVEMENT ASSOCIATION

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## FOREWORD

All producers listed in this directory have affirmed that seed planted on fields for which certification was requested was foundation, registered or certified. The history of all such seed has been checked through the records of the Missouri Crop Improvement Association and all fields examined prior to harvest by a competent inspector. Final certification requires seed to be conditioned and a certified tag or certificate to be attached to each bag, container or bulk storage unit. More detailed information describing an individual source may be obtained from the producer or the MCIA office.

Certification may be completed by the producer, or if desired, he may have the seed conditioned by an Approved Certified Seed Conditioner and stored to await final sampling and certification.

Seed from fields that have met the requirements for field inspection may be transferred in bulk (unconditioned form) only after formal approval is granted by the Missouri Crop Improvement Association. Please contact the MCIA office for the appropriate transfer forms. All Missouri certified seed must be conditioned by a MCIA approved conditioning facility.

### 2016 Officers and Staff Missouri Crop Improvement Association

President .....	Rennie Davis, Vandalia
Vice President .....	E. L. Reed, Chillicothe
Director .....	Brian Anderson, Columbia
Director .....	Lynn Andrews, Carthage
Director .....	Gene Rowland, Dudley
Director .....	Eddie Hoff, Boonville
Director .....	Kevin Mainord, East Prairie
Director .....	Bruce Strobel, Concordia
Director .....	Dan Weber, Marshall
Executive Director / Secretary-Treasurer.....	Richard Arnett, Columbia
Assistant Director / Field Services Manager .....	Mark Quisenberry, Columbia
RST / Laboratory Services Manager .....	Trent Hall, Columbia
Laboratory Technician / Seed Analyst .....	Debbie Roberts, Columbia
Laboratory Technician .....	Robin Crane, Columbia

### Purpose of Seed Certification

The purpose shall be to maintain and make available seed and propagating material of varieties so grown and distributed as to insure genetic purity and identity. To accomplish this, the Missouri Crop Improvement Association has adopted a limited generation program of seed certification that encompasses four recognized classes of seed; Breeder, Foundation, Registered and Certified.

Breeder's seed is original seed of a variety developed by the originator which remains in his/her control. Foundation seed is the progeny of Breeder's seed. Registered seed is the progeny of Foundation seed. Certified seed may be the progeny of either Foundation or Registered seed. The limited generation system means that Certified seed should not be more than three generations removed from original Breeder's seed.

Certified seed may not be re-certified, except for varieties where Foundation seed is no longer maintained or in the event an emergency is declared stating there is inadequate Foundation or Registered seed supplies to plant the needed acreage of a variety.

## **Authority**

The Missouri Crop Improvement Association is designated annually as the official seed certifying agency for the State of Missouri by the Director of the Missouri Agricultural Experiment Station as provided for in Section 266.095 of the Missouri Seed Law.

## **Eligibility Requirements**

The Missouri Crop Improvement Association will accept as eligible for certification any variety which:

1. Is released by the Missouri Agricultural Experiment Station
2. Is recommended by the National Crop Variety Review Board
3. Is approved by the Plant Variety Protection Office
4. Has been accepted for certification by any member agency of AOSCA
5. Is determined to be eligible by the MCIA Certification Committee

## **Production**

All Missouri Certified Seed is produced under the guidelines established by the MCIA Board of Directors for the production of Certified seed and adheres to the quality standards as published in the Missouri Seed Certification handbook. Only qualified producers approved by the MCIA Board of Directors are eligible to produce Missouri Certified Seed.

## **Inspection**

All seed sold as Certified must meet the published standards for both field inspection and laboratory testing. Each production field of Missouri Certified Seed will be inspected one or more times in the field prior to harvest by a competent, qualified inspector. Each seed lot of Missouri Certified Seed will be inspected in the laboratory after conditioning to determine that the seed meets the minimum varietal purity and mechanical (germination, pure seed, etc...) standards established for that crop.

## **Labeling**

An official tag or label of the MCIA must be attached to each container of seed sold as Certified. If Certified seed is sold in bulk form, an official certificate from the MCIA must accompany the seed at the time of sale. Seed should not be accepted as Certified without an official label or certificate, regardless of the claims of the seller.

## **QUALITY ASSURANCE PROGRAM (QA)**

The Quality Assurance (QA) program is a service offered to MCIA members that mirrors the official certification program for cultivars that have not been approved for production as certified seed or do not meet certification eligibility requirements. MCIA's QA program provides independent, unbiased, third-party field inspection and laboratory testing for cultivars that are not eligible to be produced within the normal certification process. Listing in this directory implies that the seed is eligible to be tagged with an official MCIA QA tag or label. Please refer to the label for the exact status of the seed. For additional information on the QA program, please contact the MCIA office.

## **Protected Varieties Produced in Missouri**

The following list contains varieties applied for certification or quality assurance inspection in Missouri for which the owner has applied and/or received a certificate of Plant Variety Protection. In either case, no one may offer for sale, sexually multiply or use to produce a hybrid, seed of these varieties without the permission of the owner or applicant. Seed of varieties for which the originator has invoked U.S. Plant Variety Protection may be sold by variety name only.

This is not a complete listing of all protected varieties, only those varieties for which certification or quality assurance inspection by the Missouri Crop Improvement Association has been applied for. A complete listing of all protected varieties may be obtained by contacting:

USDA/AMS/PVP  
National Agricultural Library Building  
Beltsville, MD 20705  
[www.ars-grin.gov/cgi-bin/npgs/html/pvplist.pl?](http://www.ars-grin.gov/cgi-bin/npgs/html/pvplist.pl?)

### **Soft Red Winter Wheat**

Beretta	Branson
Milton	Oakes
Pioneer Brand 25R32	Pioneer Brand 25R78
Pioneer Brand 26R10	Pioneer Brand 26R41
Pioneer Brand 26R53	Pioneer Brand 26R59
Roane	SY 007
SY 474	SY 483
SY 547	SY Harrison
SY Viper	Truman

### **Hard Red Winter Wheat**

Everest

### **Winter Barley**

Atlantic  
Thoroughbred

### **Triticale**

815  
Short Beard Thunder

The purpose of this booklet is to provide producers with a convenient reference of the sources of Certified or Quality Assurance seed. For additional copies or information not provided in this booklet, please contact:

Executive Director  
Missouri Crop Improvement Association  
3211 Lemone Industrial Blvd.  
Columbia, MO 65201-7600

Phone (573) 449-0586  
Fax (573) 874-3193  
E-mail [moseed@aol.com](mailto:moseed@aol.com)  
Internet [www.moseed.org](http://www.moseed.org)

## Alphabetical Listing of Producers

### **Andrews Farm & Seed**

Lynn Andrews  
5505 Locust Road  
Carthage, MO 64836  
(417) 246-5510

### **Belt Seed Company**

Jim Belt  
110 E. Middle Street  
Leonard, MO 63451  
(660) 762-4279

### **Braungardt Ag Services**

Trent Braungardt  
13688 Hwy Y  
Bowling Green, MO 63334  
(573) 324-6820

### **Buchheit, Inc.**

Dave Danker  
33 PCR 540  
Perryville, MO 63775  
(573) 547-4569

### **Chestnut Corner Farms**

Pat Clark  
13982 Hwy 139  
Sumner, MO 64681  
(559) 284-7669

### **Davis Seed Farms**

Rennie Davis  
45339 Audrain 548  
Vandalia, MO 63382  
(573) 594-3222

### **Dorroh Seed & Supply**

Lawrence Dorroh  
2501 Hwy. 84 East  
Hayti, MO 63851  
(573) 359-2222

### **El-Par Seeds**

Jim Elliott  
18254 Providence Road  
Versailles, MO 65084  
(573) 378-4540

### **Ferguson Seed Farms**

Steve Ferguson  
764 County Road 239  
Glasgow, MO 65254  
(660) 338-5105

### **Foster Elevator Company**

John Laughlin  
101 Main  
Foster, MO 64745  
(660) 832-4800

### **Daryl Freeze**

803 Country Club Drive  
Butler, MO 64730  
(660) 424-0308

### **Gemeinhardt Seeds**

Kevin Mainord  
200 W Russell  
Anniston, MO 63820  
(573) 649-3520

### **GFG Ag Products**

Chris Hoffman  
915 Shanklin Avenue  
Trenton, MO 64683  
(660) 359-2258

### **Gremaud Ag & Resources**

Tim Gremaud  
287 Raccoon Road  
Perryville, MO 63775  
(573) 547-7214

### **Hoff Farms**

Eddie Hoff  
208 Highland Drive  
Boonville, MO 65233  
(660) 621-2548

### **Jimmy Sanders, Inc.**

Victor Kerperien  
17355 Hwy 412 West  
Walnut Ridge, AR 72476  
(870) 573-6353

**John Stephens Farms**  
John Stephens  
23759 County Road 766  
Parma, MO 63870  
(573) 820-2173

**Ken-Mo Agriculture Center**  
John Gamble  
805 Homecrest Street  
Kennett, MO 63857  
(573) 888-5933

**Ken Tevis Seed**  
Ken Tevis  
19588 Tevis Road  
Hughesville, MO 65334  
(660) 460-0648

**Kincaid Seed Company**  
Jaret Kincaid  
15508 Thorn Road  
Jasper, MO 64755  
(417) 394-2787

**Kinley Miller Farms**  
Kinley Miller  
12531 Lee Town Road  
Pea Ridge, AR 72751  
(479) 451-1191

**Knipp Seed Company**  
Leroy Knipp  
72413 Seed House Road  
Tipton, MO 65081  
(660) 433-2353

**Krause Seeds**  
Steve Krause  
PO Box 688  
Concordia, MO 64020  
(660) 463-7333

**William E. Metzgar**  
10602 Keystone Dr.  
Mound City, MO 64470  
(660) 442-3964

**MFA Agri Service**  
Darin Crackenberger  
1035 Industrial Road  
Chillicothe, MO 64601  
(660) 646-5000

**Missouri Foundation Seeds**  
Rick Hofen  
3600 New Haven Road  
Columbia, MO 65201  
(573) 884-7333

**Oak Hill Farm**  
Dan Martin  
1085 S 270th Street  
Pittsburg, KS 66762  
(620) 249-8842

**Owen Seed Company**  
Heath Owen  
27169 CR 285  
Carrollton, MO 64633  
(660) 542-3126

**Paul Parsons**  
3394 Isaac Miller Trail  
Albany, MO 64402  
(660) 726-3774

**Paulsmeyer Farm Seeds**  
Joe Paulsmeyer  
425 Paulsmeyer Road  
Silex, MO 63377  
(573) 656-3346

**Petersburg Seed & Grain**  
Dave Clements  
4006 State Road J  
Franklin, MO 65250  
(660) 848-2840

**River Bend Custom Seed**  
Robin Mull  
31360 CR 237  
Carrollton, MO 64633  
(660) 542-0435

**Service & Supply CO-OP**  
Randy Rodgers  
22 CO-OP Avenue  
New Florence, MO 63363  
(573) 835-2485

**Sheldon Seed Company**  
Sam Hostetler  
101 W Commercial  
Sheldon, MO 64784  
(417) 884-2711

**Stoddard County Seed Service**

Gene Rowland  
11573 State Hwy. TT  
Dudley, MO 63936  
(573) 624-6666

**Strobel Seed**

Bruce Strobel  
1173 NE 1075  
Concordia, MO 64020  
(660) 463-2895

**Syngenta Seeds**

Simon Phillips  
PO Box 30  
Berthoud, CO 80513  
(970) 532-3721

**Tanner Seed Company**

Zack Tanner  
2893 County Road 675  
Bernie, MO 63822  
(573) 276-2286

**Thompson Seed Cleaning**

Chris Thompson  
9085 NW Hwy. A  
Appleton City, MO 64724  
(660) 679-1041

**Weber Seeds**

Dan Weber  
29761 E. Hwy. 41  
Marshall, MO 65340  
(660) 886-9998

**Wisners' Certified Seed**

Kevin Wisner  
8025 NW Hwy 82  
Osceola, MO 64776  
(417) 646-8363





## SOFT RED WINTER WHEAT

**AGRI MAXX 413** is an awned variety that averages 33" in height with medium early maturity. It scores 10 for standability, 9 for double crop suitability, 9 for winter hardiness, 7 for test weight, 7 for septoria glume blotch resistance, 9 for leaf rust resistance, 9 for stripe rust resistance, 8 for head scab resistance, 7 for septoria leaf blotch resistance and 9 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Andrews Farm & Seed

Carthage, MO

(417) 246-5510

**AGRI MAXX 415** is an awned variety that averages 37" in height with medium maturity. It scores 10 for standability, 8 for double crop suitability, 8 for winter hardiness, 10 for test weight, 8 for septoria glume blotch resistance, 8 for leaf rust resistance, 9 for stripe rust resistance, 9 for head scab resistance, 8 for septoria leaf blotch resistance and 8 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Andrews Farm & Seed

Carthage, MO

(417) 246-5510

Weber Seeds

Marshall, MO

(660) 886-9998

**AGRI MAXX 444** is an awned variety with medium height and medium maturity. It scores 9 for standability, 9 for double crop suitability, 8 for winter hardiness, 8 for test weight, 8 for septoria glume blotch resistance, 7 for leaf rust resistance, 9 for stripe rust resistance, 8 for head scab resistance, 8 for septoria leaf blotch resistance and 8 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Andrews Farm & Seed

Carthage, MO

(417) 246-5510

Weber Seeds

Marshall, MO

(660) 886-9998

**AGRI MAXX 452** is an awnless variety with medium height and early maturity. It scores 10 for double crop suitability, 8 for winter hardiness, 10 for test weight, 8 for septoria glume blotch resistance, 7 for leaf rust resistance, 7 for stripe rust resistance, 8 for head scab resistance, 9 for septoria leaf blotch resistance and 7 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Weber Seeds

Marshall, MO

(660) 886-9998

**AGRI MAXX 454** is an awned variety with medium height and medium maturity. It scores 9 for double crop suitability, 8 for winter hardiness, 8 for test weight, 8 for septoria glume blotch resistance, 6 for leaf rust resistance, 6 for stripe rust resistance, 10 for head scab resistance, 7 for septoria leaf blotch resistance and 6 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Weber Seeds

Marshall, MO

(660) 886-9998

**AGRI MAXX 490** is an awned variety that averages 37” in height with very early maturity. It scores 8 for standability, 10 for double crop suitability, 8 for winter hardiness, 10 for test weight, 8 for septoria glume blotch resistance, 8 for leaf rust resistance, 6 for stripe rust resistance, 8 for head scab resistance, 8 for septoria leaf blotch resistance and 7 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

Quality Assurance Class

Weber Seeds	Marshall, MO	(660) 886-9998
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**BERETTA** (1994 PVP Protected – Title V) is an apically awnletted, medium-short height variety with mid-season maturity. It is moderately resistant to leaf rust and stripe rust. Beretta is moderately susceptible to powdery mildew.

Certified Class

Tanner Seed Company	Bernie, MO	(573) 276-2286
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**BESS** is a white chaffed, apically awnletted variety with an average height of 38-40 inches and good straw strength. Bess is a moderately early maturing variety averaging 1-2 days later than Ernie, 1-2 days earlier than Roane and 5 days earlier than Truman. It has good resistance against *Fusarium* head blight (scab) and was one of only a few lines tested with low ratings in all 7 categories of resistance measured in the US Northern Winter Wheat Fusarium Head Blight Nursery. Bess is moderately resistant to stripe rust but is considered susceptible to both leaf rust and stem rust. It has intermediate field reaction to *Septoria* leaf blotch and is moderately resistant to soil-borne mosaic virus and moderately susceptible to wheat spindle streak virus and barley yellow dwarf virus. Bess is susceptible to all races of Hessian fly.

Foundation Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Certified Class

Belt Seed Company	Leonard, MO	(660) 762-4279
Buchheit, Inc.	Perryville, MO	(573) 547-4569
El-Par Seeds	Versailles, MO	(573) 378-4540
Ferguson Seed Farms	Glasgow, MO	(660) 338-5105
Oak Hill Farm	Pittsburg, KS	(620) 249-8842
Paulsmeyer Farm Seeds	Silex, MO	(573) 656-3346
Sheldon Seed Company	Sheldon, MO	(417) 884-2711
Strobel Seed	Concordia, MO	(660) 463-2895
Ken Tevis Seed	Hughesville, MO	(660) 460-0648
Thompson Seed Cleaning	Appleton City, MO	(660) 679-1041
Weber Seeds	Marshall, MO	(660) 886-9998

**BRANSON** (1994 PVP Protected – Title V) is an awnletted, medium height semi-dwarf variety with good straw strength. It is moderately resistant to *Septoria* leaf blotch, stripe rust and powdery mildew. Branson has intermediate resistance to soil borne mosaic virus and leaf rust. It is primarily adapted to the northern soft wheat regions.

Foundation Class

Syngenta Seeds	Berthoud, CO	(970) 532-3721
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Registered Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Kincaid Seed Company	Jasper, MO	(417) 394-2787
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Tanner Seed Company	Bernie, MO	(573) 276-2286
Weber Seeds	Marshall, MO	(660) 886-9998

Certified Class

Gemeinhardt Seeds  
Tanner Seed Company

Anniston, MO  
Bernie, MO

(573) 649-3520  
(573) 276-2286

**K-6161SRW** is a smooth head variety that averages 36" in height with early-mid season maturity. It has excellent standability, very good winter hardiness, and average test weight. K-6161SRW rates 1.0 for barley yellow dwarf virus resistance, 1.2 for glume blotch resistance, 2.8 for leaf rust resistance, 3.0 for stripe rust resistance, 1.0 for *Fusarium* head blight (scab) resistance, 1.0 for *Septoria* leaf blotch resistance, 2.0 for powdery mildew resistance, 1.0 for wheat streak mosaic virus resistance and 1.5 for soil borne mosaic virus resistance on a scale of 1-5 with 1 being most resistant and 5 being most susceptible.

Quality Assurance Class

Krause Seeds

Concordia, MO

(660) 463-7333

**K-7171SRW** is a smooth head variety that averages 39" in height with mid-season maturity. It has very good standability, excellent winter hardiness, and very high test weight. K-7171SRW rates 3.0 for barley yellow dwarf virus resistance, 1.0 for glume blotch resistance, 4.0 for leaf rust resistance, 1.0 for stripe rust resistance, 2.0 for *Fusarium* head blight (scab) resistance, 2.0 for *Septoria* leaf blotch resistance, 1.0 for powdery mildew resistance, 1.0 for wheat streak mosaic virus resistance and 2.0 for soil borne mosaic virus resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Krause Seeds

Concordia, MO

(660) 463-7333

**KINGRAZER** is an awnleted, moderately tall variety with early maturity. It is moderately resistant to leaf rust, barley yellow dwarf virus, *Septoria tritici* and is moderately susceptible to soil borne mosaic virus, stripe rust and *Fusarium* head blight (scab). Kingrazer exhibits good winter hardiness, has good straw strength and good tillering capacity.

Quality Assurance Class

Andrews Farm & Seed

Carthage, MO

(417) 246-5510

**KSC 2141** is a medium early maturing, awnless variety with an average height of 38". It displays very good standability and winter hardiness with high test weight. KSC 2141 is rated highly resistant to barley yellow dwarf virus (BYDV), septoria glume blotch, septoria leaf blotch, head scab and wheat streak mosaic virus.

Quality Assurance Class

Kincaid Seed Company

Jasper, MO

(417) 394-2787

**L-171** is a smooth head variety that averages 38" in height with early maturity, very good winter hardiness and above average test weight. It scores 4.8 for standability, 5.0 for winter hardiness, 5.0 for test weight, 3.8 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 4.8 for leaf rust resistance, 3.2 for stripe rust resistance, 4.9 for *Fusarium* head blight (scab) resistance, 4.0 for *Septoria* leaf blotch resistance, 5.0 for soil borne mosaic virus resistance, 3.0 for wheat streak mosaic virus resistance and 2.2 for powdery mildew resistance on a scale of 1-5 with 5 being excellent.

Quality Assurance Class

Braungardt Ag Services  
Hoff Farms

Bowling Green, MO  
Boonville, MO

(573) 324-6820  
(660) 621-2548

**L-181** is a smooth head variety that averages 38” in height with medium-early maturity, very good standability, very good winter hardiness and high test weight. It scores 1 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 1 for leaf rust resistance, 5 for stripe rust resistance, 3 for *Fusarium* head blight (scab) resistance, 2 for *Septoria* leaf blotch resistance, 2 for soil borne mosaic virus resistance, 3 for wheat streak mosaic virus resistance and 3 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

John Stephens Farms

Dexter, MO

(573) 820-2173

**LCS 1171** is an early maturing, awnless variety that averages 36” in height. It has excellent standability, very good winter hardiness and very high test weight. LCS 1171 scores 3 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 1 for leaf rust resistance, 8 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 1 for *Septoria* leaf blotch resistance, 1 for soil borne mosaic virus resistance, 5 for wheat streak mosaic virus resistance and 7 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Petersburg Seed & Grain

Franklin, MO

(660) 848-2840

**LCS 2228** is a smooth head variety that averages 37” in height with medium-early maturity, excellent standability, very good winter hardiness and exceptional test weight. It scores 1 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 1 for leaf rust resistance, 1 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 3 for *Septoria* leaf blotch resistance, 2 for soil borne mosaic virus resistance, 1 for wheat streak mosaic virus resistance and 5 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Hoff Farms

Boonville, MO

(660) 621-2548

**LCS 2347** is a smooth head variety that averages 37” in height with medium-early maturity, very good standability, excellent winter hardiness and high test weight. It scores 2 for barley yellow dwarf virus resistance, 2 for glume blotch resistance, 1 for leaf rust resistance, 4 for stripe rust resistance, 1 for *Fusarium* head blight (scab) resistance, 4 for *Septoria* leaf blotch resistance, 1 for soil borne mosaic virus resistance 5 for powdery mildew resistance on a scale of 1-5 with 9 being excellent.

Quality Assurance Class

Tanner Seed Company

Bernie, MO

(573) 276-2286

**LCS 4343** is a smooth head variety that averages 39” in height with medium maturity, good standability, excellent winter hardiness and exceptional test weight. It scores 3 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 1 for leaf rust resistance, 1 for stripe rust resistance, 1 for *Fusarium* head blight (scab) resistance, 1 for *Septoria* leaf blotch resistance, 1 for soil borne mosaic virus resistance and 3 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Petersburg Seed & Grain

Franklin, MO

(660) 848-2840

Tanner Seed Company

Bernie, MO

(573) 276-2286

**M PRIDE 3131SRW** is an awned variety with medium height and early maturity. It scores 2 for standability, 2 for winter hardiness, 1 for test weight, 2 for barley yellow dwarf virus resistance, 4 for stripe rust resistance, 2 for leaf rust resistance, 3 for stem rust resistance, 3 for *Fusarium* head blight (scab) resistance, 4 for *Septoria* leaf blotch resistance, 2 for *Septoria* glume blotch resistance and 3 for powdery mildew resistance on a scale of 1-9 with 1 being excellent.

Quality Assurance Class

Ken Tevis Seed	Hughesville, MO	(660) 460-0648
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**MILTON** (1994 PVP Protected – Title V) is a white chaffed, awned (bearded) variety with large kernels, robust straw and good standability. Height (short), maturity (early) and winter hardiness are approximately equal to Bess. It is moderately resistant to barley yellow dwarf virus, *Septoria tritici* (leaf blotch), stripe rust and soil borne mosaic virus. Milton is moderately susceptible to *Fusarium* head blight (scab), although its scab resistance is at the average of the Missouri performance trials. It is moderately susceptible to leaf rust, stem rust and powdery mildew and is susceptible to Hessian fly.

Foundation Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Certified Class

Ken-Mo Agriculture Center	Kennett, MO	(573) 888-5933
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Ken Tevis Seed	Hughesville, MO	(660) 460-0648

**MISSOURI PRIDE 7202** is an awnletted, moderately tall (5 inches taller than Ernie) variety with early maturity (1-2 days later than Ernie). It is moderately resistant to leaf rust, barley yellow dwarf virus, *Septoria tritici* and is moderately susceptible to soil borne mosaic virus, stripe rust and *Fusarium* head blight (scab). Missouri Pride 7202 exhibits good winter hardiness, stands well and has good tillering capacity.

Quality Assurance Class

Kinley Miller Farms	Pea Ridge, AR	(479) 451-1191
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**MOMENTUM 104** is a smooth head variety that averages 34” in height with ultra-early maturity, making it ideal for double-cropping. It scores 4.5 for standability, 4.8 for winter hardiness, 4.6 for test weight, 3.8 for barley yellow dwarf virus resistance, 4.2 for glume blotch resistance, 3.8 for leaf rust resistance, 3.8 for stripe rust resistance, 5.0 for *Fusarium* head blight (scab) resistance, 4.5 for *Septoria* leaf blotch resistance, 2.3 for soil borne mosaic virus resistance, 4.0 for wheat streak mosaic virus resistance and 2.5 for powdery mildew resistance on a scale of 1-5 with 5 being excellent.

Parent Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Quality Assurance Class

Buchheit, Inc.	Perryville, MO	(573) 547-4569
Chestnut Corner Farms	Sumner, MO	(559) 284-7669
Davis Seed Farms	Vandalia, MO	(573) 594-3222
Ferguson Seed Farms	Glasgow, MO	(660) 338-5105
Foster Elevator Company	Foster, MO	(660) 832-4800
Thompson Seed Cleaning	Appleton City, MO	(660) 679-1041

**MOMENTUM 204** is a smooth head variety that averages 37” in height with early maturity, making it good for double-cropping. It scores 4.3 for standability, 4.5 for winter hardiness, 5.0 for test weight, 2.5 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 4.0 for leaf rust resistance, 3.0 for stripe rust resistance, 3.5 for *Fusarium* head blight (scab) resistance, 3.5 for *Septoria* leaf blotch resistance, 4.5 for soil borne mosaic virus resistance, 4.6 for wheat streak mosaic virus resistance and 4.5 for powdery mildew resistance on a scale of 1-5 with 5 being excellent.

Parent Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Quality Assurance Class

El-Par Seeds	Versailles, MO	(573) 378-4540
Knipp Seed Company	Tipton, MO	(660) 433-2353
Stoddard County Seed Service	Dudley, MO	(573) 624-6666

**MOMENTUM 205** is a smooth head variety that averages 37” in height with medium-early maturity, very good standability, excellent winter hardiness and high test weight. It scores 2 for barley yellow dwarf virus resistance, 2 for glume blotch resistance, 1 for leaf rust resistance, 4 for stripe rust resistance, 1 for *Fusarium* head blight (scab) resistance, 4 for *Septoria* leaf blotch resistance, 1 for soil borne mosaic virus resistance and 5 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Parent Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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**MOMENTUM 304** is a smooth head variety that averages 38” in height with medium maturity. It scores 5.0 for standability, 4.5 for winter hardiness, 5.0 for test weight, 3.9 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 2.9 for leaf rust resistance, 4.7 for stripe rust resistance, 3.8 for *Fusarium* head blight (scab) resistance, 3.1 for *Septoria* leaf blotch resistance, 4.0 for soil borne mosaic virus resistance, 4.0 for wheat streak mosaic virus resistance and 5.0 for powdery mildew resistance on a scale of 1-5 with 5 being excellent.

Parent Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Quality Assurance Class

Chestnut Corner Farms	Sumner, MO	(559) 284-7669
Davis Seed Farms	Vandalia, MO	(573) 594-3222
Ferguson Seed Farms	Glasgow, MO	(660) 338-5105
Foster Elevator Company	Foster, MO	(660) 832-4800
Daryl Freeze	Butler, MO	(660) 424-0308
Hoff Farms	Boonville, MO	(660) 621-2548
William E. Metzgar	Mound City, MO	(660) 442-3964
MFA AgriService	Chillicothe, MO	(660) 646-5000
Oak Hill Farm	Pittsburg, KS	(620) 249-8842
Owen Seed Company	Carrollton, MO	(660) 542-3126
Paul Parsons	Albany, MO	(660) 726-3774
Sheldon Seed Company	Sheldon, MO	(417) 884-2711
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Strobel Seed	Concordia, MO	(660) 463-2895
Ken Tevis Seed	Hughesville, MO	(660) 460-0648
Weber Seeds	Marshall, MO	(660) 886-9998

**OAKES** (1994 PVP Protected – Title V) is a medium height variety (same as Beretta) with mid-season maturity (2 days earlier than Beretta) that is adapted to most of the mid-south, delta and eastern soft red wheat areas. It is resistant/moderately resistant to prevalent field races of stripe rust and is moderately resistant/moderately susceptible to leaf rust races prevalent in the mid-south and southeastern U.S, wheat spindle streak virus, soil borne mosaic virus and *Septoria tritici* (leaf blotch). Oakes is moderately susceptible/susceptible to powdery mildew in the southeast and is susceptible to Hessian fly.

Registered Class

Tanner Seed Company	Bernie, MO	(573) 276-2286
Stoddard County Seed Service	Dudley, MO	(573) 624-6666

Certified Class

Kincaid Seed Company	Jasper, MO	(417) 394-2787
Tanner Seed Company	Bernie, MO	(573) 276-2286

**OLIVER** is a smooth head variety that averages 37” in height and matures 2 days earlier than Branson and 8 days earlier than Truman. It scores 2.2 for standability, 1.9 for winter hardiness, 1.0 for test weight, 2.0 for barley yellow dwarf virus resistance, 1.5 for glume blotch resistance, 1.0 for stripe rust resistance, 2.5 for leaf rust resistance, 1.0 for *Fusarium* head blight (scab) resistance, 3.0 for *Septoria tritici* resistance, 2.0 for powdery mildew resistance, 2.3 for wheat spindle streak virus resistance and 2.8 for soil borne mosaic virus resistance on a scale of 1-5 with 1 being excellent and 5 being poor.

Quality Assurance Class

Gremaud Ag & Resources	Perryville, MO	(573) 547-7214
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**PIONEER BRAND 25R32** (1994 PVP Protected) is an awned variety that on average heads one day later and is three centimeters taller than Pioneer Brand 25R47. It has shown good winter hardiness and joints very late in the spring, which reduces the risk of damage from spring freeze. Pioneer Brand 25R32 exhibits a high level of *Fusarium* head blight (scab) resistance along with excellent stripe rust and very good powdery mildew resistance. It has good resistance to spindle streak mosaic and soil borne mosaic virus. Pioneer Brand 25R32 has average resistance to leaf rust and the complex of fungal organisms that incite leaf blights and is postulated to contain the H9 & H10 genes for Hessian fly resistance.

Quality Assurance Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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**PIONEER BRAND 25R78** (1994 PVP Protected) is an awned variety primarily adapted to the northern and mid-south soft winter wheat regions. It is resistant to prevalent races of leaf rust and has intermediate resistance to powdery mildew, soil borne & wheat spindle streak mosaic virus. Pioneer brand 25R78 has intermediate resistance to the complex of organisms that incite leaf blights including *Septoria tritici* blotch, *Stagnospora nodorum* blotch and tan spot, as well as *Fusarium* head blight (scab). It has intermediate resistance to biotypes L & E of Hessian fly.

Quality Assurance Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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**PIONEER BRAND 26R10** (1994 PVP Protected) is an awned variety with adaptation to the soft red winter wheat growing regions of the southeastern and mid-southern U.S., approximately south of the Ohio river. It averages 122 days to heading (2 days later than 26R15) and averages 84 cm in height (5 cm shorter than 26R15). Pioneer Brand 26R10 has shown very good stripe rust resistance and exhibits good resistance to leaf rust, soil-borne mosaic virus and wheat spindle streak virus. It has shown slightly below average resistance to *Fusarium* head blight (scab) and has resistance to biotype L of Hessian fly from the H13 resistance gene.

Certified Class

Jimmy Sanders, Inc. Walnut Ridge, AR (870) 573-6353

Quality Assurance Class

Gemeinhardt Seeds Anniston, MO (573) 649-3520

**PIONEER BRAND 26R41** (1994 PVP Protected) is an awned variety with medium maturity, short height, excellent straw strength and excellent test weight. It is shorter and spike emergence is one day earlier than Pioneer Brand 26R15. Pioneer Brand 26R41 appears moderately susceptible to moderately resistant to fungal leaf blight (*Septoria spp*, *Stagonospora*, and/or *Pyrenophora spp*), is resistant to prevalent isolates of leaf rust and powdery mildew and is susceptible to *Fusarium* head blight. It is highly resistant to isolates of stripe rust present in 2012 and is resistant to prevalent races of Hessian fly having H13 and/or H22.

Quality Assurance Class

Gemeinhardt Seeds Anniston, MO (573) 649-3520

**PIONEER BRAND 26R53** (1994 PVP Protected) is an awned variety with medium-early maturity, short height, excellent straw strength and excellent test weight. It is shorter and spike emergence is one day earlier than Pioneer Brand 26R14. Pioneer Brand 26R53 has moderate resistance to fungal leaf blight (*Septoria spp*, *Stagonospora*, and/or *Pyrenophora spp*), is moderately resistant to prevalent isolates of leaf rust, has average resistance to powdery mildew and is susceptible to *Fusarium* head blight. It is highly resistant to isolates of stripe rust present in 2012 and is susceptible to biotype L of Hessian fly.

Quality Assurance Class

Gemeinhardt Seeds Anniston, MO (573) 649-3520

**PIONEER BRAND 26R59** (1994 PVP Applied) please contact producer for agronomic and phenotypic data.

Quality Assurance Class

Gemeinhardt Seeds Anniston, MO (573) 649-3520

**ROANE** (1994 PVP Protected – Title V) is a full season, high yielding, awnletted variety with exceptionally high test weight and resistance or tolerance to a broad spectrum of plant pathogens and insect pests. It is approximately 1” taller than Coker 9803 and 1” shorter than FFR 555W. Straw strength is similar to FFR 555W and superior to Jackson. Winter hardiness is similar to Madison and superior to Jackson. Roane has some resistance to barley yellow dwarf virus and is resistant to the prevalent races of leaf rust. It lacks any known genetic resistance to stem rust. Roane expresses an intermediate level of resistance to soil borne mosaic virus, wheat spindle streak virus and leaf/glume blotch. It possesses moderate tolerance to head scab and is resistant to biotypes B, C, E and GP of Hessian fly.

Foundation Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Certified Class

Buchheit, Inc.	Perryville, MO	(573) 547-4569
Ferguson Seed Farms	Glasgow, MO	(660) 338-5105
Ken Tevis Seed	Hughesville, MO	(660) 460-0648

**SY 007** (1994 PVP Protected – Title V) is an awned variety with medium height (93 cm) and medium-early maturity (126 days to 50% heading). It has shown good test weight, above average stripe rust & powdery mildew resistance and moderate resistance to septoria & soil borne mosaic virus. SY 007 shows moderate susceptibility to fusarium head blight (scab) and susceptibility to the races of leaf rust present in the primary area of adaptation.

Foundation Class

Syngenta Seeds	Berthoud, CO	(970) 532-3721
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Registered Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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Certified Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Paul Parsons	Albany, MO	(660) 726-3774

**SY 100** is an awnletted variety that averages 76 cm in height and 135 days to 50% heading. It has tested moderately resistant to stripe rust, powdery mildew and barley yellow dwarf virus. SY 100 has tested moderately susceptible to fusarium head blight (scab), soil borne mosaic virus and Septoria and is susceptible to leaf rust.

Registered Class

Weber Seeds	Marshall, MO	(660) 886-9998
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**SY 474** (1994 PVP Protected – Title V) is an awnletted variety that averages 97 cm in height and 128 days to 50% heading. It has shown above average test weight, moderate resistance to fusarium head blight, moderate resistance to powdery mildew and the prevalent races of leaf rust and strip rust found in the area of adaptation. SY 474 is susceptible to soil borne mosaic virus and has tested as resistant to Hessian fly biotype B.

Registered Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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Certified Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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**SY 483** (1994 PVP Protected – Title V) is an awnleted, medium-tall semi-dwarf variety with white chaff. It has medium maturity and heads similar to W1377. SY 483 has shown tolerance to powdery mildew, susceptibility to *Rhizoctonia* and intermediate susceptibility to *Fusarium*, *Septoria* and leaf rusts in the area of adaptation

Foundation Class

Syngenta Seeds	Berthoud, CO	(970) 532-3721
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Registered Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Weber Seeds	Marshall, MO	(660) 886-9998

**SY 547** (1994 PVP Applied For) is an awnleted, medium tall semi-dwarf variety with medium maturity (heading date 1/2 day earlier than SY 474 and 1 day later than Branson). It is moderately resistant to powdery mildew, soilborne mosaic virus and fungal leaf blights. SY 547 has shown average tolerance to current races of stripe & leaf rust and fusarium head blight (scab) and is known to be moderately susceptible to barley yellow dwarf virus.

Foundation Class

Syngenta Seeds	Berthoud, CO	(970) 532-3721
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Registered Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Weber Seeds	Marshall, MO	(660) 886-9998

Certified Class

Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
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**SY HARRISON** (1994 PVP Protected – Title V) is a medium height semi-dwarf variety with medium-full season maturity that heads similar to SY 9978 and 1 day earlier than 26R15. It has shown moderate resistance to *Septoria* leaf complex and the races of stripe rust in its area of adaptation. SY Harrison has shown moderate susceptibility to leaf rust and is susceptible to several current races of powdery mildew.

Registered Class

Dorroh Seed & Supply	Hayti, MO	(573) 359-2222
Kincaid Seed Company	Jasper, MO	(417) 394-2787
Gemeinhardt Seeds	Anniston, MO	(573) 649-3520

Certified Class

Dorroh Seed & Supply	Hayti, MO	(573) 359-2222
Gemeinhardt Seeds	Anniston, MO	(573) 649-3520

**SY VIPER** (1994 PVP Protected – Title V) is a medium maturity variety that averages 39” in height found to be adapted to southeastern MO, eastern AR, western TN and KY, the ‘Delta’ region of MS, north LA, eastern NC and northeastern SC. It has shown moderate resistance to current races of powdery mildew and moderate susceptibility to leaf rust in the area of adaptation and is susceptible to several current races of powdery mildew.

Registered Class

Kincaid Seed Company	Jasper, MO	(417) 394-2787
Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Tanner Seed Company	Bernie, MO	(573) 276-2286

**TRUMAN** (1994 PVP Protected – Title V) is an apically awnletted variety with moderately tall plant height and full season maturity (comparable to Cardinal and 3-4 days later than Roane). It has good winter hardiness and is moderately tolerant of acid soils. Truman has a high level of broad-based resistance to *Fusarium* head blight (scab). It is resistant to stripe rust and has above average resistance to *Septoria* leaf blotch. Truman is moderately resistant to soil borne mosaic virus and moderately susceptible to barley yellow dwarf virus. It is susceptible to leaf rust, stem rust and all biotypes of Hessian fly.

Foundation Class

Missouri Foundation Seeds	Columbia, MO	(573) 884-7333
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Certified Class

Andrews Farm & Seed	Carthage, MO	(417) 246-5510
Wisners' Certified Seed	Osceola, MO	(417) 646-8363

**XL 164** is a smooth head variety that averages 35” in height with ultra-early maturity. It scores 1.0 for standability, 1.7 for winter hardiness, 1.1 for test weight, 1.8 for barley yellow dwarf virus resistance, 2.0 for glume blotch resistance, 2.2 for leaf rust resistance, 1.4 for *Fusarium* head blight (scab) resistance, 2.3 for *Septoria* leaf blotch resistance, 1.8 for powdery mildew resistance, 2.0 for wheat streak mosaic virus resistance and 2.0 for soil borne mosaic virus resistance on a scale of 1-5 with 1 being excellent and 5 being poor.

Quality Assurance Class

Service & Supply CO-OP	New Florence, MO	(573) 835-2485
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**XL 176** is an early maturing, smooth headed variety that averages 36” in height. It has excellent standability, very good winter hardiness and very high test weight. XL 176 scores 3 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 1 for leaf rust resistance, 8 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 1 for *Septoria* leaf blotch resistance, 1 for soil borne mosaic virus resistance, 5 for wheat streak mosaic virus resistance and 7 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Service & Supply CO-OP	New Florence, MO	(573) 835-2485
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**XL 194** is an awnless variety that averages 38-40” in height and heads 1 day earlier than Bess. It is resistant to soil borne mosaic virus, moderately resistant to *Fusarium* head blight (scab), leaf rust, & stripe rust and is moderately susceptible/susceptible to *Septoria tritici* (leaf blight).

Quality Assurance Class

Service & Supply CO-OP	New Florence, MO	(573) 835-2485
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**XL 205** is a smooth head variety that averages 36” in height with medium maturity. It scores 5.0 for standability, 4.5 for winter hardiness, 4.5 for test weight, 5.0 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 2.8 for leaf rust resistance, 3.0 for stripe rust resistance, 4.2 for *Fusarium* head blight (scab) resistance, 4.5 for *Septoria* leaf blotch resistance, 3.0 for powdery mildew resistance, 4.5 for wheat streak mosaic virus resistance and 4.5 for soil borne mosaic virus resistance on a scale of 1-5 with 5 being excellent and 1 being poor.

Quality Assurance Class

Service & Supply CO-OP	New Florence, MO	(573) 835-2485
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**XL 356** is an awnless variety with mid-season maturity that averages 39” in height. It has very good standability, excellent winter hardiness, and very high test weight. XL356 rates 3 for barley yellow dwarf virus resistance, 1 for glume blotch resistance, 4 for leaf rust resistance, 1 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 2 for *Septoria* leaf blotch resistance, 1 for powdery mildew resistance, 1 for wheat streak mosaic virus resistance and 2 for soil borne mosaic virus resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Service & Supply CO-OP

New Florence, MO

(573) 835-2485

**XL 416** is a bearded variety that averages 39” in height with medium maturity. It has very good standability, very good winter hardiness, and high test weight. XL 416 rates 3 for barley yellow dwarf virus resistance, 3 for leaf rust resistance, 2 for stripe rust resistance, 4 for *Fusarium* head blight (scab) resistance, 3 for *Septoria* leaf blotch resistance, and 5 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Service & Supply CO-OP

New Florence, MO

(573) 835-2485

## TRITICALE

**815** (1994 PVP Protected) is a hexaploid, photoperiod-sensitive winter type triticale that is very responsive to good fertility and crop management. This variety makes good use of excess nitrogen and works well used in double crop applications. Plant height would be classified as mid-tall at 118 cm and intermediate (midseason) maturity. Heads of 815 are mid-dense, fusiform and fully awned. Awn color is white and glumes at maturity are glabrous, white, long, and mid-wide. At boot stage, plant color is green and the leaves have a waxy bloom. Leaf carriage is recurved and the flag leaf is not twisted. Seed is red in color, elliptical shaped and slightly wrinkled. Variants noted in 815 include approximately 3% that are five to ten cm taller than the norm. Under some environmental conditions, approximately 1.5% of the plants have brownish spikes.

Registered Class

Paul Parsons

Albany, MO

(660) 726-3774

Certified Class

Paul Parsons

Albany, MO

(660) 726-3774

**SHORT BEARD THUNDER** (1994 PVP Protected – Title V) is a hexaploid, winter type variety with early maturity (4 days earlier than NE422T) and mid-tall height (112 cm – 28 cm shorter than NE422T). Head type is awnleted, mid-dense oblong with tan awns that average 10 cm in length. Seed is amber, smooth, elliptical with a large brush area and long brush length that average 31 grams per 1,000 seeds. Short Beard Thunder has shown resistant to Kenyan races of stem rust and Nebraska races of leaf rust.

Certified Class

River Bend Custom Seed

Carrollton, MO

(660) 542-0435

**98<sup>th</sup> Annual Meeting  
of the  
Missouri Crop Improvement Association**



**To Be Held At**

**Missouri Foundation Seeds  
3600 New Haven Road  
Columbia, MO 65201**

**On**

**August 1, 2016  
Columbia, MO**

**Annual Membership Meeting and BBQ Luncheon to begin at 12:00 p.m.**

**Soybean Field Day and Plot Tour to Begin at 1:00 p.m.**

**Make Plans Now To Attend Your Annual Meeting!!!**