

# MISSOURI SEED DIRECTORY

## 2019 FALL



**For Fall Seeded Crops**

**Winter Barley**

**Hard Red Winter Wheat**

**Soft Red Winter Wheat**

**Winter Triticale**

**THE 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.mocrop.org](http://www.mocrop.org)**

# TABLE OF CONTENTS

Foreword			1
Officers, Directors and Staff			1
Purpose of Seed Certification			1
Plant Variety Protection Listing			3
2019 Fall Producers Listing			4
Winter Barley			
Atlantic			7
Secretariat			7
Hard Red Winter Wheat			
Everest			7
Soft Red Winter Wheat			
Agri Maxx 413	7	LVF 1134	11
Agri Maxx 415	7	LVF 1736	11
Agri Maxx 444	7	Missouri Pride 7202	11
Agri Maxx 463	7	Momentum 104	11
Agri Maxx 473	7	Momentum 106	11
Agri Maxx 475	8	Momentum 304	12
Agri Maxx 480	8	Oakes	12
Agri Maxx 490	8	Oliver	12
Bess	8	Pioneer Brand 26R10	12
Branson	8	Pioneer Brand 26R36	12
Hilliard	9	Pioneer Brand 26R41	13
K-9103SRW	9	Pioneer Brand 26R45	13
Kingrazer	9	Pioneer Brand 26R59	13
KSC 1155	9	Roane	13
KSC 1172	9	SY 100	13
L11419	10	SY 483	14
L11538	10	SY 547	14
L11713	10	SY Viper	14
L11719	10	Truman	14
L11741	10	XL 229	14
L11742	10	XL 297	14
		XL 379	14
Winter Triticale			
841446398			15
Fredro			15
2019 Annual Meeting Announcement			16

## 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.

### 2019 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 .....	Robin Crane, Columbia
Laboratory Technician .....	Marshal Reidlinger, Columbia
Laboratory Technician .....	Brianne Arnett, 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 and meets all Federal Seed Act requirements
2. Is recommended by the National Crop Variety Review Board
3. Is approved by the Plant Variety Protection Office and meets all Federal Seed Act requirements
4. Has been accepted for certification by a member agency of AOSCA and meets all Federal Seed Act Requirements
5. Meets all Federal Seed Act requirements and 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**

Branson	Hilliard
Oakes	Pioneer Brand 26R10
Pioneer Brand 26R36	Pioneer Brand 26R41
Pioneer Brand 26R45	Pioneer Brand 26R59
Roane	SY 100
SY 483	SY 547
SY Viper	Truman

### **Hard Red Winter Wheat**

Everest

### **Winter Barley**

Atlantic  
Secretariat

The purpose of this booklet is to provide producers with a convenient reference of the sources of Certified and/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.mocrop.org](http://www.mocrop.org)

## Alphabetical Listing of Producers

### **Andrews Farm & Seed**

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

### **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

### **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

### **Gemeinhardt Seeds**

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

### **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

### **John Stephens Farms**

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

### **Ken Tevis Seed**

Ken Tevis  
19588 Tevis Road  
Hughesville, MO 65334

### **Kincaid Seed Company**

Jaret Kincaid  
15508 Thorn Road  
Jasper, MO 64755  
(417) 394-3100

### **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

### **Lakeview Farms**

Verlin Shrock  
44200 Hwy. BB  
Middletown, MO 63359  
573-253-6625

### **Midwest Fertilizer**

Merv Bellich  
154 South Main  
Metz, MO 64765  
(417) 484-3212

**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

**Parsons Seed Cleaning**

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

**Service & Supply CO-OP**

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

**Stoddard County Seed Service**

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

**Stratton Seed Company**

Heath North  
200 W Russell  
Anniston, MO 68320  
(573) 649-3520

**Strobel Seed**

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

**Tanner Seed Company**

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

**Thompson & Son Seed Treating**

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

## WINTER BARLEY

**ATLANTIC** (1994 PVP Protected) is a high yielding, moderately early heading (average 6 days earlier than Thoroughbred), semi-awned variety released by Virginia Tech University. It is a short stature (average 33”), six-row variety with good winter hardiness and high test weight. Atlantic is resistant to powdery mildew and moderately resistant to leaf rust.

Certified Class

El-Par Seeds

Versailles, MO

(573) 378-4540

**SECRETARIAT** (1994 PVP Protected) is a six-row hulled variety that is high yielding with high test weight. It is a moderately early heading variety with short plant height, good winterhardiness and short awns. Secretariat is resistant to most prevalent barley diseases but is susceptible to fusarium head blight (scab).

Certified Class

El-Par Seeds

Versailles, MO

(573) 378-4540

## HARD RED WINTER WHEAT

**EVEREST** (1994 PVP Protected – Title V) is about 1 day later and slightly shorter than Jagger, with good straw strength, good tolerance to shattering and excellent test weight. It is moderately resistant to leaf rust, stripe rust, stem rust race QFCS and susceptible to stem rust race Ug99. Everest has intermediate resistance to speckled leaf blotch, moderate resistance to *Fusarium* head blight (scab) and is moderately susceptible to tan spot. It is resistant to soil-borne mosaic virus and spindle streak mosaic virus, is tolerant to barley yellow dwarf virus, moderately susceptible to wheat streak mosaic and resistant to prevalent biotypes of Hessian fly.

Registered Class

Oak Hill Farm

Pittsburg, KS

(620) 249-8842

Certified Class

Oak Hill Farm

Pittsburg, KS

(620) 249-8842



## 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

**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

**AGRI MAXX 463** is an awnless variety with early maturity and medium short height. It scores 9 for double crop suitability, 10 for standability, 8 for winter hardiness, 7 for test weight, 8 for septoria glume blotch resistance, 8 for leaf rust resistance, 9 for stripe rust resistance, 10 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 473** is an awned variety medium early maturity with medium height. It scores 9 for double crop suitability, 8 for winterhardiness, 9 for test weight and 9 for lodging. Agri Maxx 473 scores 10 for head scab resistance, 9 for leaf and stripe rust 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

Weber Seeds

Marshall, MO

(660) 886-9998

**AGRI MAXX 475** is an awned variety with medium short height (84cm average), recurved/twisted flag leaf at boot stage, yellow-green plant color, yellow anthers and tan glumes at maturity. It has acceptable milling and baking qualities.

Quality Assurance Class

Andrews Farm & Seed	Carthage, MO	(417) 246-5510
Weber Seeds	Marshall, MO	(660) 886-9998

**AGRI MAXX 480** is an awned variety that averages 35' in height with medium early maturity.

Quality Assurance Class

Andrews Farm & Seed	Carthage, MO	(417) 246-5510
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
-------------	--------------	----------------

**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
---------------------------	--------------	----------------

Certified Class

Ferguson Seed Farms	Glasgow, MO	(660) 338-5105
Oak Hill Farm	Pittsburg, KS	(620) 249-8842
Paulsmeyer Farm Seeds	Silex, MO	(573) 656-3346
Strobel Seed	Concordia, MO	(660) 463-2895
Ken Tevis Seed	Hughesville, MO	(660) 460-0648

**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.

Registered Class

Stoddard County Seed Service	Dudley, MO	(573) 624-6666
------------------------------	------------	----------------

Certified Class

Kincaid Seed Company	Jasper, MO	(417) 394-3100
Stratton Seed Company	Anniston, MO	(573) 649-3520

**HILLIARD** (1994 PVP Pending) is a broadly adapted variety with medium stature (34-38”) and excellent straw strength. It is resistant to barley yellow dwarf virus and powdery mildew, moderately resistant to leaf rust, leaf blotch caused by *Septoria tritici* and *Stagnosopora modorum* as well as glume blotch caused by *Septoria nodorum*. Hilliard is resistant to Hessian fly biotypes B, C and D but is susceptible to biotypes O and L.

Foundation Class

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

Registered Class

Kincaid Seed Company	Jasper, MO	(417) 394-3100
Stoddard County Seed Service	Dudley, MO	(573) 624-6666

Certified Class

Midwest Fertilizer	Metz, MO	(417) 484-3212
--------------------	----------	----------------

**K-9103SRW** is an awned (bearded), medium maturity, medium height variety that scores 8 for winter hardiness, 7 for lodging, 9 for test weight, 8 for stripe rust, 8 for septoria leaf blotch, 8 for powdery mildew resistance, 7 for leaf rust and 7 for stem rust on a scale of 1-9 with 9 being excellent.

Quality Assurance Class

Krause Seeds, Inc.	Concordia, MO	(660) 463-7333
--------------------	---------------	----------------

**KINGRAZER** is an awnletted, 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 1155** is a high yielding, full-season maturity (comparable to SY 474 & Branson), medium height (34”), semi-dwarf variety. It has resistance to leaf rust & stripe rust and is susceptible to stem rust. KSC 1155 is moderately resistant to barley yellow dwarf virus, bacterial leaf streak, *Septoria tritici* leaf blotch and *Septoria norodum* glume blotch. It is considered moderately resistant to *Fusarium* head blight (scab).

Quality Assurance Class

Kincaid Seed Company	Jasper, MO	(417) 394-3100
----------------------	------------	----------------

**KSC 1172** is a high yielding, medium-full season maturity, awned variety with excellent straw strength and above average test weight that averages 35” in height. It has good tolerance to stripe rust, powdery mildew, *Septoria tritici*, glume blotch and soil borne mosaic virus. KSC 1172 is considered moderately tolerant to leaf rust and *Fusarium* head blight (scab).

Quality Assurance Class

Kincaid Seed Company	Jasper, MO	(417) 394-3100
----------------------	------------	----------------

**L11419** is a tip-awned variety that averages 39” in height with medium-early maturity, very good straw strength and above average test weight. It scores 1 for barley yellow dwarf virus resistance, 1 for leaf rust resistance, 2 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 2 for *Septoria* leaf blotch resistance and 2 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

**L11538** is an awned variety with medium-full season maturity and very good straw strength that averages 37” in height. It scores 2 for stripe rust, 1 for powdery mildew, 2 for head scab, 2 for barley yellow dwarf virus and 1 for leaf rust on a scale of 1-9 with 1 being best.

Quality Assurance Class

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

**L11713** is a bearded variety with early season maturity, excellent straw strength and very high test weight that averages 35” in height. It scores 1.3 for stripe rust, 1.5 for powdery mildew, 2.0 for head scab, 2.0 for septoria tritici, 1.0 for leaf rust and 1.0 for glume blotch on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

Hoff Farms Boonville, MO (660) 621-2548  
John Stephens Farms Parma, MO (573) 624-5999

**L11719** is a bearded variety with medium-full season maturity, excellent straw strength and above average test weight that averages 35” in height. It scores 1.0 for stripe rust, 1.3 for powdery mildew, 2.9 for head scab, 1.5 for septoria tritici, 3.9 for leaf rust, 1.5 for glume blotch and 1.0 for soil borne mosaic virus on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

Hoff Farms Boonville, MO (660) 621-2548  
John Stephens Farms Parma, MO (573) 624-5999

**L11741** is a smooth-head variety with ultra-early maturity, above average test weight and good straw strength that averages 36” in height. It scores 6.0 for stripe rust, 3.0 for powdery mildew, 1.8 for head scab, 2 for septoria tritici and 3.0 for leaf rust on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

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

**L11742** is a smooth-head variety with ultra-early maturity, very high test weight and very good straw strength that averages 34” in height. It scores 7.0 for stripe rust, 3.5 for powdery mildew, 2.0 for head scab, 2.2 for septoria tritici and 2.0 for leaf rust on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

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



**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.

Quality Assurance Class

Stoddard County Seed Service

Dudley, MO

(573) 624-6666

**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

Stoddard County Seed Service

Dudley, MO

(573) 624-6666

**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

**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.

Quality Assurance Class

Gemeinhardt Seeds

Anniston, MO

(573) 649-3520

**PIONEER BRAND 26R36** (1994 PVP Protected) is a medium height (35-36”) variety adapted to the southern soft wheat regions of the U.S. It has shown strong resistance to leaf rust, stripe rust, *Fusarium* head blight (scab) and soil-borne mosaic virus.

Quality Assurance Class

Gemeinhardt Seeds

Anniston, MO

(573) 649-3520



**SY 483** (1994 PVP Protected – Title V) is an awnletted, 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.

Certified Class

Weber Seeds Marshall, MO (660) 886-9998

**SY 547** (1994 PVP Protected – Title V) is an awnletted, 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.

Certified Class

Weber Seeds Marshall, MO (660) 886-9998

**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

Stoddard County Seed Service Dudley, MO (573) 624-6666

Certified Class

Gemeinhardt Seeds Anniston, MO (573) 649-3520  
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

Certified Class

Andrews Farm & Seed Carthage, MO (417) 246-5510

**XL 229** is a bearded variety with early maturity, very good straw strength and very high test weight that averages 36” in height. It scores 1.5 for stripe rust, 1.8 for powdery mildew, 2.2 for head scab, 3.0 for septoria tritici, 1.0 for leaf rust, 2.7 for glume blotch and 1.0 for soil borne mosaic virus on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

Service & Supply CO-OP New Florence, MO (573) 835-2485



**XL 297** is a medium maturity, tip-awned (awnletted) variety that averages 36”in height with excellent standability and high test weight. It scores 4 for barley yellow dwarf virus resistance, 2 for leaf rust resistance, 1 for stripe rust resistance, 4 for *Fusarium* head blight (scab) resistance, 1 for *Septoria* leaf blotch resistance and 2 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

Service & Supply CO-OP

New Florence, MO

(573) 835-2485

**XL 379** is an awned variety with medium maturity and medium plant height. It scores 1 for stripe rust and soil borne mosaic virus, 2.9 for head scab, 3.9 for stripe rust and 1.5 for glume blotch on a scale of 1-9 with 1 being most resistant.

Quality Assurance Class

Service & Supply CO-OP

New Florence, MO

(573) 835-2485

## TRITICALE

**841446398** is an awnletted variety with moderate plant height and good straw strength. It has high seed yield potential, high silage yield with good silage quality. It scores 8 for stripe rust, 8 for leaf rust and 8 for winterhardiness on a scale of 1-9 with 9 being excellent.

Certified Class

Parsons Seed Cleaning

Albany, MO

(660) 726-3774

**FREDRO** is a winter triticale variety with a traditional length of straw that has good winter hardiness and excellent resistance to diseases. It is an early variety, which is crucial for poor and water-deficient soils. Fredro’s grains are well-equalized, with high 1000 grain weights and low rate of screenings, is highly resistant to pre-harvest sprouting and the high protein content in the grains is particularly beneficial to animal feeding. A recommended seed rate in optimal sowing terms is about 350-380 germinant seeds per 1m<sup>2</sup> (which is 160-180 kg/ha). In case of late sowing, the rate should be increased by 10%.

Foundation Class

Missouri Foundation Seeds

Columbia, MO

(573) 884-7333

**101<sup>st</sup> Annual Meeting  
of the  
Missouri Crop Improvement Association**



**To Be Held At**

**Missouri Crop Improvement Association  
3211 Lemone Industrial Blvd  
Columbia, MO 65201**

**On**

**August 5, 2019  
Columbia, MO**

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