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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Columbia, MO 65201-7600
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Fax (573) 874-3193
E-mail: moseed@aol.com
Internet: www.mocrop.org
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#### Winter Barley

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#### Hard Red Winter Wheat

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- **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?

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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
Internet 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 63820
(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 Stagnospora mororum 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 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 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 nodorum 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
LVF 1134 is an awnletted (awn tipped) variety that averages 36” in height with ultra-early maturity and very good straw strength. It scores 5 for stripe rust, 1 for powdery mildew, 2 for head scab, 2 for barley yellow dwarf virus and 4 for leaf rust on a scale of 1-9 with 1 being best.

Quality Assurance Class
Lakeview Farms
Middletown, MO
(573) 549-2231

LVF 1736 is an awned (bearded) variety that averages 35” in height with medium-full maturity, above average test weight and very good to excellent straw strength. It scores 1 for stripe rust, 1 for powdery mildew, 3 for head scab, 2 for septoria tritici, 2 for glume blotch, 1 for soil borne mosaic and 4 for leaf rust on a scale of 1-9 with 1 being best.

Quality Assurance Class
Lakeview Farms
Middletown, MO
(573) 549-2231

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

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.

Quality Assurance Class
Buchheit, Inc.
Perryville, MO
(573) 547-4569
Ferguson Seed Farms
Glasgow, MO
(660) 338-5105
Thompson & Son Seed Treating
Appleton City, MO
(660) 679-1041

MOMENTUM 106 is a broadly adapted, white-chaffed, awnless variety with early maturity (heads 1-2 days earlier than Ernie) and moderately short height with good standability. Its Fusarium head blight (scab) resistance level is good and the DON (deoxynivalenol) content is low. Momentum 106 has an intermediate reaction to Septoria tritici blotch and Septoria glume blotch as well as to black chaff or bacterial leaf streak, is susceptible to yellow rust and leaf rust and is moderately tolerant of acid soils.

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

Quality Assurance Class
Chesnut Corner Farms
Sumner, MO
(559) 284-7669
El-Par Seeds
Versailles, MO
(573) 378-4540
Ken Tevis Seed
Hughesville, MO
(660) 460-0648
Knipp Seed Company
Tipton, MO
(660) 433-2353
Thompson & Son Seed Treating
Appleton City, MO
(660) 679-1041
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
PIioneer 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 26R45 (1994 PVP Applied) is an apically awnletted variety that has medium-tall height with an erect juvenile growth habit with a head that is mid-dense and tapering. It has excellent resistance to stripe rust and very good resistance to powdery mildew.

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

Pioneer Brand 26R59 (1994 PVP Protected) is best adapted to the southern soft wheat regions of the U.S. and has shown very good resistance to stripe rust and powdery mildew as well as better than average resistance to leaf rust and fungal leaf blights.

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

Certified Class
Strobel Seed  Concordia, MO  (660) 463-2895
Ken Tevis Seed  Hughesville, MO  (660) 460-0648

SY 100 (1994 PVP Protected – Title V) 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
Kincaid Seed Company  Jasper, MO  (417) 394-3100
**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

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**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 1m² (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
101st 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.