

MISSOURI SEED DIRECTORY

2017 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.

2017 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
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Assistant Director / Field Services Manager	Mark Quisenberry, Columbia
RST / Laboratory Services Manager	Trent Hall, Columbia
Laboratory Technician	Robin Crane, 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
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?

Soft Red Winter Wheat

Branson	Hilliard
Milton	Oakes
Pioneer Brand 25R32	Pioneer Brand 25R78
Pioneer Brand 26R10	Pioneer Brand 26R36
Pioneer Brand 26R41	Pioneer Brand 26R53
Pioneer Brand 26R59	Roane
SY 100	SY 483
SY 547	SY Harrison
SY Viper	Truman

Hard Red Winter Wheat

Everest
Zenda

Winter Barley

Atlantic

Triticale

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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

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

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
(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

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

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 Company
Doug Weekley
4006 State Road J
Franklin, MO 65250
(660) 621-1167

Seed & Farm Supply
Marty Bunton
1246 West Hwy K
Liberal, MO 64762
(417) 843-6465

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

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
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Certified Class

GFG Ag Products	Trenton, MO	(660) 359-2258
William E. Metzgar	Mound City, MO	(660) 442-3964
Oak Hill Farm	Pittsburg, KS	(620) 249-8842

ZENDA (1994 PVP – Title V Protection Applied For) is a medium-early, medium height variety that has moderate resistance to stem, stripe and leaf rust. It also has good acid soil tolerance and is resistant to soilborne mosaic virus. Zenda will have similar resistance to *Fusarium* head blight (scab) as Everest but will be slightly more susceptible to barley yellow dwarf.

Registered Class

GFG Ag Products	Trenton, MO	(660) 359-2258
Oak Hill Farm	Pittsburg, KS	(620) 249-8842
William E. Metzgar	Mound City, MO	(660) 442-3964

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

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 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 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 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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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
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

BRANSON (1994 PVP Protected – Title V) is an awnleted, 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
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Tanner Seed Company	Bernie, MO	(573) 276-2286

Certified Class

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

HILLIARD (1994 PVP – Title V Protection Applied For) 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 nodorum* 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
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K-7102SRW is an awned head variety with moderately short height and moderately early maturity. It rates 8 for lodging, 7 for test weight, 8 for winterhardiness, 8 for *Fusarium* head blight (scab) resistance, 8 for barley yellow dwarf virus resistance, 7 for *Septoria* glume blotch resistance, 7 for leaf rust resistance, 8 for stripe rust resistance, 6 for *Septoria* leaf blotch resistance, 6 for powdery mildew resistance and 7 for soil borne mosaic virus resistance on a scale of 1-9 with 9 being best and 1 being worst.

Quality Assurance Class

Krause Seeds	Concordia, MO	(660) 463-7333
Ken Tevis Seed, Inc.	Hughesville, MO	(660) 460-0648

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
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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) 394-2787

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

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

LCS 1172 is a smooth head variety that averages 36” in height with early maturity, excellent straw strength and high test weight. It scores 4 for barley yellow dwarf virus resistance, 4 for leaf rust resistance, 5 for stripe rust resistance, 1 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

Gremaud Ag & Resources Perryville, MO (573) 547-7214

LCS 1248 is a smooth head variety that averages 38” in height with medium-early maturity, very good straw strength and high test weight. It scores 1 for barley yellow dwarf virus resistance, 1 for leaf rust resistance, 5 for stripe rust resistance, 3 for *Fusarium* head blight (scab) resistance, 2 for *Septoria* leaf blotch 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 Parma, MO (573) 624-5999

LCS 2214 is a tip-awned variety that averages 35” in height with medium-early maturity, exceptional straw strength and average test weight. It scores 2 for barley yellow dwarf virus resistance, 1 for leaf rust resistance, 2 for stripe rust resistance, 2 for *Fusarium* head blight (scab) resistance, 4 for *Septoria* leaf blotch resistance and 1 for powdery mildew resistance on a scale of 1-9 with 1 being most resistant and 9 being most susceptible.

Quality Assurance Class

Gremaud Ag & Resources Perryville, MO (573) 547-7214
Kincaid Seed Company Jasper, MO (417) 394-2787

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 3204 is a smooth head variety that averages 39” in height with medium maturity, excellent standability and very high test weight. It scores 3 for barley yellow dwarf virus resistance, 3 for leaf rust resistance, 2 for stripe rust resistance, 2 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 and 9 being most susceptible.

Quality Assurance Class

Hoff Farms

Boonville, MO

(660) 621-2548

LCS 3334 is a smooth head variety that averages 38” in height with medium-early maturity, excellent standability and very high test weight. It scores 2 for barley yellow dwarf virus resistance, 1 for leaf rust resistance, 2 for stripe rust resistance, 1 for *Fusarium* head blight (scab) resistance, 2 for *Septoria* leaf blotch resistance and 1 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 Company

Franklin, MO

(660) 621-1167

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.

Certified Class

Stoddard County Seed Service

Dudley, MO

(573) 624-6666

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.

Parent Class

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

Chestnut Corner Farms	Sumner, MO	(559) 284-7669
Davis Seed Farms	Vandalia, MO	(573) 594-3222
El-Par Seeds	Versailles, MO	(573) 378-4540
Ken Tevis Seed	Hughesville, MO	(660) 460-0648
Knipp Seed Company	Tipton, MO	(660) 433-2353
Seed & Farm Supply	Liberal, MO	(417) 843-6465
Shelton Seed	Centralia, MO	(573) 682-2369
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Thompson & Son Seed Treating	Appleton City, MO	(660) 679-1041
Weber Seeds	Marshall, MO	(660) 886-9998

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
Ken Tevis Seed	Hughesville, MO	(660) 460-0648
Seed & Farm Supply	Liberal, MO	(417) 843-6465
Sheldon Seed Company	Sheldon, MO	(417) 884-2711
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Strobel Seed	Concordia, MO	(660) 463-2895

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
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Certified Class

Tanner Seed Company	Bernie, MO	(573) 276-2286
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
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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

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

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 Applied) 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

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) 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

Ferguson Seed Farms

Glasgow, MO

(660) 338-5105

Ken Tevis Seed

Hughesville, MO

(660) 460-0648

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

Kincaid Seed Company

Jasper, MO

(417) 394-3100

Certified Class

Weber Seeds

Marshall, MO

(660) 886-9998

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 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.

Registered Class

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

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

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
Gemeinhardt Seeds	Anniston, MO	(573) 649-3520

Certified Class

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

Dorroh Seed & Supply	Hayti, MO	(573) 359-2222
Gemeinhardt Seeds	Anniston, MO	(573) 649-3520
Stoddard County Seed Service	Dudley, MO	(573) 624-6666
Tanner Seed Company	Bernie, MO	(573) 276-2286

Certified Class

Dorroh Seed & Supply	Hayti, MO	(573) 359-2222
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.

Certified Class

Andrews Farm & Seed

Carthage, MO

(417) 246-5510

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

XL 297 is a medium maturity, tip-awned 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 and 9 being most susceptible.

Quality Assurance Class

Service & Supply CO-OP

New Florence, MO

(573) 835-2485

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

**99th Annual Meeting
of the
Missouri Crop Improvement Association**



To Be Held At

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

On

**July 27, 2017
Columbia, MO**

Annual Membership Meeting and Luncheon to begin at 11:00 p.m.

Soybean Field Day and Plot Tour to Begin at 12:30 p.m.

Make Plans Now To Attend Your Annual Meeting!!!