For Fall Seeded Crops
Winter Barley
Winter Oats
Hard Red Winter Wheat
Soft Red Winter Wheat

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
Internet: www.moseed.org
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>1</td>
</tr>
<tr>
<td>Officers, Directors and Staff</td>
<td>1</td>
</tr>
<tr>
<td>Purpose of Seed Certification</td>
<td>1</td>
</tr>
<tr>
<td>Plant Variety Protection Listing</td>
<td>3</td>
</tr>
<tr>
<td>2015 Fall Producers Listing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Winter Barley</strong></td>
<td></td>
</tr>
<tr>
<td>Atlantic</td>
<td>7</td>
</tr>
<tr>
<td>Thoroughbred</td>
<td>7</td>
</tr>
<tr>
<td><strong>Winter Oats</strong></td>
<td>7</td>
</tr>
<tr>
<td>Cosaque</td>
<td>7</td>
</tr>
<tr>
<td><strong>Hard Red Winter Wheat</strong></td>
<td></td>
</tr>
<tr>
<td>Everest</td>
<td>7</td>
</tr>
<tr>
<td><strong>Soft Red Winter Wheat</strong></td>
<td></td>
</tr>
<tr>
<td>Agri Maxx 413</td>
<td>8</td>
</tr>
<tr>
<td>Agri Maxx 415</td>
<td>8</td>
</tr>
<tr>
<td>Agri Maxx 444</td>
<td>8</td>
</tr>
<tr>
<td>Agri Maxx 490</td>
<td>8</td>
</tr>
<tr>
<td>Beretta</td>
<td>8</td>
</tr>
<tr>
<td>Bess</td>
<td>9</td>
</tr>
<tr>
<td>Branson</td>
<td>9</td>
</tr>
<tr>
<td>K-5151SRW</td>
<td>9</td>
</tr>
<tr>
<td>Kingrazer</td>
<td>10</td>
</tr>
<tr>
<td>L-168</td>
<td>10</td>
</tr>
<tr>
<td>L-171</td>
<td>10</td>
</tr>
<tr>
<td>L-203</td>
<td>10</td>
</tr>
<tr>
<td>M Pride 3131SRW</td>
<td>10</td>
</tr>
<tr>
<td>Milton</td>
<td>11</td>
</tr>
<tr>
<td>Missouri Pride 7202</td>
<td>11</td>
</tr>
<tr>
<td>Momentum 104</td>
<td>11</td>
</tr>
<tr>
<td>Momentum 204</td>
<td>12</td>
</tr>
<tr>
<td>Momentum 304</td>
<td>12</td>
</tr>
<tr>
<td>Oakes</td>
<td>12</td>
</tr>
<tr>
<td>Oliver</td>
<td>13</td>
</tr>
<tr>
<td>Pioneer Brand 25R32</td>
<td>13</td>
</tr>
<tr>
<td>Pioneer Brand 25R40</td>
<td>13</td>
</tr>
<tr>
<td>Pioneer Brand 25R78</td>
<td>13</td>
</tr>
<tr>
<td>Pioneer Brand 26R10</td>
<td>13</td>
</tr>
<tr>
<td>Pioneer Brand 26R20</td>
<td>14</td>
</tr>
<tr>
<td>Pioneer Brand 26R41</td>
<td>14</td>
</tr>
<tr>
<td>Pioneer Brand 26R53</td>
<td>14</td>
</tr>
<tr>
<td>Roane</td>
<td>14</td>
</tr>
<tr>
<td>SY 007</td>
<td>15</td>
</tr>
<tr>
<td>SY 100</td>
<td>15</td>
</tr>
<tr>
<td>SY 474</td>
<td>15</td>
</tr>
<tr>
<td>SY 483</td>
<td>15</td>
</tr>
<tr>
<td>SY 547</td>
<td>16</td>
</tr>
<tr>
<td>SY Harrison</td>
<td>16</td>
</tr>
<tr>
<td>Truman</td>
<td>16</td>
</tr>
<tr>
<td>W1104</td>
<td>17</td>
</tr>
<tr>
<td>XL164</td>
<td>17</td>
</tr>
<tr>
<td>XL194</td>
<td>17</td>
</tr>
<tr>
<td>XL205</td>
<td>17</td>
</tr>
<tr>
<td>2016 Annual Meeting Announcement</td>
<td>18</td>
</tr>
</tbody>
</table>
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.

2015 Officers and Staff
Missouri Crop Improvement Association

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

Purpose of Seed Certification

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

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

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

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

Eligibility Requirements

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

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

Production

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

Inspection

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

Labeling

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

QUALITY ASSURANCE PROGRAM (QA)

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

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

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

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

**Soft Red Winter Wheat**

- Beretta
- Milton
- Pioneer Brand 25R32
- Pioneer Brand 25R78
- Pioneer Brand 26R20
- Pioneer Brand 26R53
- SY 007
- SY 483
- SY Harrison
- W1104

- Branson
- Oakes
- Pioneer Brand 25R40
- Pioneer Brand 26R10
- Pioneer Brand 26R41
- Roane
- SY 474
- SY 547
- Truman

**Hard Red Winter Wheat**

- Everest

**Winter Barley**

- Atlantic
- Thoroughbred

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

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

Phone  (573) 449-0586
Fax  (573) 874-3193
E-mail  moseed@aol.com
Internet  www.moseed.org
## Alphabetical Listing of Producers

<table>
<thead>
<tr>
<th>Andrews Farm &amp; Seed, Inc.</th>
<th>Belt Seed Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynn Andrews</td>
<td>Jim Belt</td>
</tr>
<tr>
<td>5505 Locust Road</td>
<td>110 E. Middle Street</td>
</tr>
<tr>
<td>Carthage, MO 64836</td>
<td>Leonard, MO 63451</td>
</tr>
<tr>
<td>(417) 246-5510</td>
<td>(660) 762-4279</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boyley Farm Service, Inc.</th>
<th>Braunagrdt Ag Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles Boyley</td>
<td>Trent Braunagrdt</td>
</tr>
<tr>
<td>103 Hwy. DD</td>
<td>13688 Hwy Y</td>
</tr>
<tr>
<td>Fisk, MO 63940</td>
<td>Bowling Green, MO 63334</td>
</tr>
<tr>
<td>(573) 967-3617</td>
<td>(573) 324-6820</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Buchheit, Inc.</th>
<th>Davis Seed Farms, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dave Danker</td>
<td>Rennie Davis</td>
</tr>
<tr>
<td>33 PCR 540</td>
<td>45339 Audrain 548</td>
</tr>
<tr>
<td>Perryville, MO 63775</td>
<td>Vandalia, MO 63382</td>
</tr>
<tr>
<td>(573) 547-4569</td>
<td>(573) 594-3222</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dorroh Seed &amp; Supply</th>
<th>El-Par Seeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawrence Dorroh</td>
<td>Jim Elliott</td>
</tr>
<tr>
<td>2501 Hwy. 84 East</td>
<td>18254 Providence Road</td>
</tr>
<tr>
<td>Hayti, MO 63851</td>
<td>Versailles, MO 65084</td>
</tr>
<tr>
<td>(573) 359-2222</td>
<td>(573) 378-4540</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ferguson Seed Farms</th>
<th>Foster Elevator Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steve Ferguson</td>
<td>John Laughlin</td>
</tr>
<tr>
<td>764 County Road 239</td>
<td>101 Main</td>
</tr>
<tr>
<td>Glasgow, MO 65254</td>
<td>Foster, MO 64745</td>
</tr>
<tr>
<td>(660) 338-5105</td>
<td>(660) 832-4800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bill Garrett</th>
<th>GFG Ag Products, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>238 S. 160 Hwy.</td>
<td>Chris Hoffman</td>
</tr>
<tr>
<td>Golden City, MO 64748</td>
<td>915 Shanklin Avenue</td>
</tr>
<tr>
<td>(417) 537-8368</td>
<td>Trenton, MO 64683</td>
</tr>
<tr>
<td></td>
<td>(660) 359-2258</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gremaud Ag &amp; Resources, LLC</th>
<th>Hoff Farms, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Gremaud</td>
<td>Eddie Hoff</td>
</tr>
<tr>
<td>287 Raccoon Road</td>
<td>208 Highland Drive</td>
</tr>
<tr>
<td>Perryville, MO 63775</td>
<td>Boonville, MO 65233</td>
</tr>
<tr>
<td>(573) 547-7214</td>
<td>(660) 621-2548</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ken-Mo Agriculture Center, Inc.</th>
<th>Kincaid Seed Company, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Gamble</td>
<td>Jaret Kincaid</td>
</tr>
<tr>
<td>805 Homecrest Street</td>
<td>15508 Thorn Road</td>
</tr>
<tr>
<td>Kennett, MO 63857</td>
<td>Jasper, MO 64755</td>
</tr>
<tr>
<td>(573) 888-5933</td>
<td>(417) 394-2787</td>
</tr>
<tr>
<td>Company Name</td>
<td>Contact Name</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Kinley Miller Farms, Inc.</td>
<td>Kinley Miller</td>
</tr>
<tr>
<td>Knipp Seed Company</td>
<td>Leroy Knipp</td>
</tr>
<tr>
<td>Krause Seeds, Inc.</td>
<td>Steve Krause</td>
</tr>
<tr>
<td>MFA Agri Service</td>
<td>Darin Crackenberger</td>
</tr>
<tr>
<td>Missouri Foundation Seeds</td>
<td>Rick Hofen</td>
</tr>
<tr>
<td>MRM Ag Service, Inc.</td>
<td>Kevin Mainord</td>
</tr>
<tr>
<td>Oak Hill Farm, Inc.</td>
<td>Dan Martin</td>
</tr>
<tr>
<td>Owen Seed Company</td>
<td>Heath Owen</td>
</tr>
<tr>
<td>Paulsmeyer Farm Seeds</td>
<td>Joe Paulsmeyer</td>
</tr>
<tr>
<td>Petersburg Seed &amp; Grain, Inc.</td>
<td>Dave Clements</td>
</tr>
<tr>
<td>Seed &amp; Farm Supply</td>
<td>Marty Bunton</td>
</tr>
<tr>
<td>Service &amp; Supply CO-OP</td>
<td>Randy Rodgers</td>
</tr>
<tr>
<td>Sheldon Seed Company</td>
<td>Roy Cunningham</td>
</tr>
<tr>
<td>Shelton Seed, LLC</td>
<td>Donald Shelton</td>
</tr>
<tr>
<td>Stoddard County Seed Service</td>
<td>Gene Rowland</td>
</tr>
<tr>
<td>Strobel Seed</td>
<td>Bruce Strobel</td>
</tr>
</tbody>
</table>
Syngenta Seeds, Inc.         Tanner Seed Company, LLC
Simon Phillips             Zack Tanner
PO Box 30                  2893 County Road 675
Berthoud, CO  80513        Bernie, MO  63822
(970) 532-3721             (573) 276-2286

Ken Tevis Seed, Inc.       Thompson Seed Cleaning
Ken Tevis                 Chris Thompson
19588 Tevis Road          9085 NW Hwy. A
Hughesville, MO  65334    Appleton City, MO  64724
(660) 460-0648             (660) 679-1041

Weber Seeds, Inc.          Wisners’ Certified Seed
Dan Weber                  Kevin Wisner
829761 E. Hwy. 41          8025 NW Hwy 82
Marshall, MO  65340        Osceola, MO  64776
(660) 886-9998             (417) 646-8363
**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.

**Registered Class**
El-Par Seeds
Versailles, MO
(573) 378-4540

**Certified Class**
El-Par Seeds
Versailles, MO
(573) 378-4540

**THOROUGHBRED** (1994 PVP Protected – Title V) is a high yielding, full season, awned, six-row hulled variety released by Virginia Tech University. It has good straw strength, high test weight and bright plump seed. On average, plant height is 3-4” shorter than Wysor and Nomini and 3-4” taller than Callao and Price, with head emergence 2 days later than Wysor, 4 days later than Nomini and Price and 6 days later than Callao. Thoroughbred is resistant to powdery mildew and barley yellow dwarf virus and moderately susceptible to leaf rust and net blotch.

**Certified Class**
El-Par Seeds
Versailles, MO
(573) 378-4540

**WINTER OATS**

**COSAQUE** is a black winter oat variety of French origin with medium height and intermediate growth habit. It has good tillering characteristics, is very cold tolerant and provides excellent weed control as leaf width is 1” or more. Cosaque can be used for either forage or cover crop purposes.

**Certified Class**
Bill Garrett
Golden City, MO
(417) 537-8368

**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
(417) 238-8842

**Certified Class**
GFG Ag Products
Trenton, MO
(660) 359-2258
Oak Hill Farm
Pittsburg, KS
(417) 238-8842
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 blight 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 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 blight resistance and 8 for powdery mildew resistance on a scale of 1-10 with 10 being excellent.

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

AGRI MAXX 444 is an awned variety with medium height and medium maturity. It scores 9 for standability, 9 for double crop suitability, 8 for winter hardiness, 8 for test weight, 8 for septoria glume blotch resistance, 7 for leaf rust resistance, 9 for stripe rust resistance, 8 for head scab resistance, 8 for septoria leaf blight 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 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 blight 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

BERETTA (1994 PVP Protected – Title V) is an apically awnleted, medium-short height variety with mid-season maturity. It is moderately resistant to leaf rust and stripe rust. Beretta is moderately susceptible to powdery mildew.

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

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

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

**Certified Class**

| Certified Class | Belt Seed Company | Leonard, MO | (660) 762-4279 |
|                | Buchheit, Inc.    | Perryville, MO | (573) 547-4569 |
|                | El-Par Seeds      | Versailles, MO | (573) 378-4540 |
|                | Ferguson Seed Farms | Glasgow, MO | (660) 338-5105 |
|                | Foster Elevator Company | Foster, MO | (660) 832-4800 |
|                | MFA Agri Service  | Chillicothe, MO | (660) 646-5000 |
|                | Oak Hill Farm     | Pittsburg, KS | (417) 238-8842 |
|                | Paulsmeyer Farm Seeds | Silex, MO | (573) 656-3346 |
|                | Seed & Farm Supply | Liberal, MO | (417) 843-6465 |
|                | Sheldon Seed Company | Sheldon, MO | (417) 884-2711 |
|                | Strobel Seed      | Concordia, MO | (660) 463-2895 |
|                | Ken Tevis Seed    | Hughesville, MO | (660) 460-0648 |
|                | Thompson Seed Cleaning | Appleton City, MO | (660) 679-1041 |
|                | Weber Seeds       | Marshall, MO | (660) 886-9998 |

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

**Registered Class**

| Registered Class | MRM Ag Service | East Prairie, MO | (573) 649-3533 |
|                 | Tanner Seed Company | Bernie, MO | (573) 276-2286 |

**Certified Class**

| Certified Class | Kincaid Seed Company | Jasper, MO | (417) 394-2787 |
|                | MRM Ag Service      | East Prairie, MO | (573) 649-3533 |
|                | Stoddard County Seed Service | Dudley, MO | (573) 624-6666 |
|                | Tanner Seed Company | Bernie, MO | (573) 276-2286 |
|                | Weber Seeds         | Marshall, MO | (660) 886-9998 |

K-5151SRW is a bearded variety that averages 39” in height with full season maturity. It has good standability, very good winter hardiness, and average test weight. K-5151SRW rates 1.0 for barley yellow dwarf virus resistance, 2.0 for glume blotch resistance, 2.0 for leaf rust resistance, 1.0 for stripe rust resistance, 2.0 for Fusarium head blight (scab) resistance, 2.5 for Septoria leaf blotch resistance, 2.0 for powdery mildew resistance, 2.3 for wheat streak mosaic virus resistance and 3.9 for soil borne mosaic virus resistance on a scale of 1-5 with 1 being most resistant and 5 being most susceptible.

**Quality Assurance Class**

| Quality Assurance Class | Krause Seeds | 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

**L-168** is a smooth head variety that averages 34” in height with ultra-early maturity. It scores 5.0 for standability, 4.3 for winter hardiness, 4.7 for test weight, 4.2 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 4.3 for leaf rust resistance, 4.6 for *Fusarium* head blight (scab) resistance, 3.6 for *Septoria* leaf blotch resistance, 4.2 for powdery mildew resistance, 4.0 for wheat streak mosaic virus resistance and 4.0 for soil borne mosaic virus resistance on a scale of 1-5 with 5 being excellent.

*Quality Assurance Class*
Gremaud Ag & Resources Perryville, MO (573) 547-7214

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

*Quality Assurance Class*
Braungardt Ag Services Bowling Green, MO (573) 324-6820

**L-203** is an awnless variety that averages 35” in height with medium-early maturity. It scores 4.2 for standability, 4.5 for winter hardiness, 4.8 for test weight, 4.1 for barley yellow dwarf virus resistance, 5.0 for glume blotch resistance, 3.6 for leaf rust resistance, 3.7 for *Fusarium* head blight (scab) resistance, 4.4 for *Septoria* leaf blotch resistance, 3.2 for powdery mildew resistance, 4.0 for wheat streak mosaic virus resistance and 5.0 for soil borne mosaic virus resistance on a scale of 1-5 with 5 being excellent.

*Quality Assurance Class*
Gremaud Ag & Resources Perryville, MO (573) 547-7214

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

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

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

**Certified Class**
Ferguson Seed Farms Glasgow, MO (660) 338-5105
Ken-Mo Agriculture Center Kennett, MO (573) 888-5933
Seed & Farm Supply Liberal, MO (417) 843-6465
Stoddard County Seed Service Dudley, MO (573) 624-6666
Ken Tevis Seed Hughesville, MO (660) 460-0648
Wisners’ Certified Seed Osceola, MO (417) 646-8363

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

**Quality Assurance Class**
Buchheit, Inc. Perryville, MO (573) 547-4569
Davis Seed Farms Vandalia, MO (573) 594-3222
Ferguson Seed Farms Glasgow, MO (660) 338-5105
Oak Hill Farm Pittsburg, KS (417) 238-8842
Owen Seed Company Carrollton, MO (660) 542-3126
Shelton Seed Centralia, MO (573) 682-2369
Ken Tevis Seed Hughesville, MO (660) 460-0648
Thompson Seed Cleaning Appleton City, MO (660) 679-1041
MOMENTUM 204 is a smooth head variety that averages 37” in height with early maturity, making it good for double-cropping. It scores 4.3 for standability, 4.5 for winter hardiness, 5.0 for test weight, 2.5 for barley yellow dwarf virus resistance, 4.0 for glume blotch resistance, 4.0 for leaf rust resistance, 3.0 for stripe rust resistance, 3.5 for *Fusarium* head blight (scab) resistance, 3.5 for *Septoria* leaf blotch resistance, 4.5 for soil borne mosaic virus resistance, 4.6 for wheat streak mosaic virus resistance and 4.5 for powdery mildew resistance on a scale of 1-5 with 5 being excellent.

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

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

MOMENTUM 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

**Quality Assurance Class**  
Hoff Farms Boonville, MO (660) 621-2548  
Sheldon Seed Company Sheldon, MO (417) 884-2711  
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**  
Tanner Seed Company Bernie, MO (573) 276-2286

**Certified Class**  
Ken-Mo Agriculture Center Kennett, MO (573) 888-5933  
Kincaid Seed Company Jasper, MO (417) 394-2787  
Stoddard County Seed Service Dudley, MO (573) 624-6666  
Tanner Seed Company Bernie, MO (573) 276-2286
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 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
MRM Ag Service East Prairie, MO (573) 649-3533

PIONEER BRAND 25R40 (1994 PVP Protected) is an awned variety that on average heads one day later and is five centimeters shorter than Pioneer Brand 25R47. It is resistant to powdery mildew, has intermediate resistance to leaf rust, stripe rust, tan spot, Septoria nodorum (glume blotch), Septoria tritici (leaf blotch), soil borne mosaic virus, wheat spindle streak virus and is susceptible to Fusarium head blight (scab). Pioneer Brand 25R40 is susceptible to biotype E of Hessian fly.

Quality Assurance Class
MRM Ag Service East Prairie, MO (573) 649-3533

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
MRM Ag Service East Prairie, MO (573) 649-3533

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
MRM Ag Service East Prairie, MO (573) 649-3533
**PIONEER BRAND 26R20** (1994 PVP Protected) is an awned variety that on average heads three days later and is four centimeters taller than Pioneer Brand 25R78. It has shown very good resistance to leaf rust, stripe rust and powdery mildew and has below average *Fusarium* head blight (scab) resistance. Pioneer Brand 26R20 has average resistance to spindle streak mosaic virus, soil borne mosaic virus and the complex of fungal organisms that incite leaf blights. It has shown moderate resistance to predominant field biotypes of Hessian fly in the southeastern U.S. region.

*Quality Assurance Class*
MRM Ag Service
East Prairie, MO  (573) 649-3533

**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*
MRM Ag Service
East Prairie, MO  (573) 649-3533

**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*
MRM Ag Service
East Prairie, MO  (573) 649-3533

**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*
Buchheit, Inc.
Perryville, MO  (573) 547-4569
Ferguson Seed Farms
Glasgow, MO  (660) 338-5105
Strobel Seed
Concordia, MO  (660) 463-2895
Ken Tevis Seed
Hughesville, MO  (660) 460-0648
**SY 007** (1994 PVP Protected – Title V) is an awned variety with medium height (93 cm) and medium-early maturity (126 days to 50% heading). It has shown good test weight, above average stripe rust & powdery mildew resistance and moderate resistance to septoria & soil borne mosaic virus. SY 007 shows moderate susceptibility to fusarium head blight (scab) and susceptibility to the races of leaf rust present in the primary area of adaptation.

*Registered Class*
MRM Ag Service
East Prairie, MO
(573) 649-3533

*Certified Class*
MRM Ag Service
East Prairie, MO
(573) 649-3533
Weber Seeds
Marshall, MO
(660) 886-9998

**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.

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

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

*Registered Class*
MRM Ag Service
East Prairie, MO
(573) 649-3533

*Certified Class*
MRM Ag Service
East Prairie, MO
(573) 649-3533
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.

*Registered Class*
MRM Ag Service
East Prairie, MO
(573) 649-3533
Petersburg Seed & Grain
Franklin, MO
(660) 848-2840

*Certified Class*
Petersburg Seed & Grain
Franklin, MO
(660) 848-2840
Weber Seeds
Marshall, MO
(660) 886-9998
**SY 547** (1994 PVP Applied For) is an awnletted, medium tall semi-dwarf variety with medium maturity (heading date 1/2 day earlier that 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*
- MRM Ag Service
  - East Prairie, MO (573) 649-3533
- Petersburg Seed & Grain
  - Franklin, MO (660) 848-2840
- Weber Seeds
  - Marshall, MO (660) 886-9998

*Certified Class*
- Petersburg Seed & Grain
  - Franklin, MO (660) 848-2840

**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
- Ken-Mo Agriculture Center
  - Kennett, MO (573) 888-5933
- Kincaid Seed Company
  - Jasper, MO (417) 394-2787
- MRM Ag Service
  - East Prairie, MO (573) 649-3533
- Tanner Seed Company
  - Bernie, MO (573) 276-2286

*Certified Class*
- Dorroh Seed & Supply
  - Hayti, MO (573) 359-2222
- MRM Ag Service
  - East Prairie, MO (573) 649-3533
- 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
- Boyles Farm Service
  - Fisk, MO (573) 967-3617
- Ferguson Seed Farms
  - Glasgow, MO (660) 338-5105
- Weber Seeds
  - Marshall, MO (660) 886-9998
**W1104** (1994 PVP Protected – Title V) is a relatively short semi-dwarf variety and has medium maturity with height and heading date similar to Cooper. It has shown tolerance to the current races of leaf rust in OH, KY & TN and soil borne mosaic virus and wheat spindle streak virus in IL. W1104 has shown intermediate resistance to current races of powdery mildew in MI.

*Certified Class*
Weber Seeds Marshall, MO (660) 886-9998

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

*Quality Assurance Class*
Service & Supply CO-OP New Florence, MO (573) 835-2485

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

*Quality Assurance Class*
Service & Supply CO-OP New Florence, MO (573) 835-2485

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

*Quality Assurance Class*
Service & Supply CO-OP New Florence, MO (573) 835-2485
98th Annual Meeting
of the

Missouri Crop Improvement Association

- NEW IN 2016 –

MCIA’s Annual Membership Meeting is Moving to a Summer Format

Stayed Tuned for Additional Information Regarding Date and Location