Kauffman Seeds’ main interest is in making sure all of our customers get the best quality seed for their needs.

Whether it is selecting field crops or cover crops, we are constantly looking for the newest products in the marketplace that will allow customers the best chance for making a profit.

It isn’t only about the highest yield, but how much profit you make per acre. We want to make sure every customer has a good feeling about what they are doing with seed purchased here. We are here to serve and help answer your questions, regardless of how trivial they may be. Either email us or, for a more personal touch, give us a call. We would be glad to help you with your questions or problems.

Kauffman Seeds was started in 1965 by Edward Kauffman as an alfalfa seed cleaning business. In 1972, Jerry and Lois Wyse started taking over the business from Lois’s Dad. At that time, certified wheat was added to the business. The mid-80’s saw the introduction of soybeans both in production and processing. Seed wheat, alfalfa, and soybeans were the mainstay of the operation. In 1995, Midland Genetics was formed as several seed companies joined forces to launch a breeding program to get ready for the introduction of Roundup Ready® Soybeans. Corn, grain sorghum, and forages were added to the selling lines all under the Midland Genetics brand name. In 2005, Tom Clayman and Dustin Miller purchased Kauffman Seeds from Jerry and Lois Wyse. The current ownership has maintained the business as it was and has added cover crops to facilitate more of our customers’ needs.
### CORN TECHNOLOGIES

<table>
<thead>
<tr>
<th>PR RIB</th>
<th>SS RIB</th>
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<tr>
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<td>SmartStax&lt;sup&gt;®&lt;/sup&gt; RIB Complete&lt;sup&gt;®&lt;/sup&gt; Corn Blend</td>
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<td>VT Double PRO&lt;sup&gt;®&lt;/sup&gt; Corn</td>
<td>Roundup Ready&lt;sup&gt;®&lt;/sup&gt; Corn 2</td>
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<th>PRW RIB</th>
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<td>DroughtGard&lt;sup&gt;®&lt;/sup&gt; Hybrids with VT Double PRO&lt;sup&gt;®&lt;/sup&gt; RIB Complete&lt;sup&gt;®&lt;/sup&gt; Corn Blend</td>
<td>Genuity&lt;sup&gt;®&lt;/sup&gt; VT Triple PRO&lt;sup&gt;®&lt;/sup&gt; RIB Complete&lt;sup&gt;®&lt;/sup&gt; Corn Blend</td>
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<tr>
<td>LibertyLink&lt;sup&gt;®&lt;/sup&gt;</td>
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### NUMBERING SYSTEM

#### CORN: 726PR

- **7**: Maturity 0 - 9
- **2**: Sequence 0 - 9
- **6**: Release Year
- **PR**: Traits

#### SOYBEAN: 3875NRR

- **3.8**: Maturity 0 - 9
- **7**: Sequence 0 - 9
- **5**: Release Year
- **N**: SCN resistance
- **R2**: Traits

#### GRAIN SORGHUM: 4772

- **4**: Grain Sorghum
- **7**: Maturity 0 - 9
- **7**: Sequence 0 - 9
- **2**: Release Year

### SOYBEAN TECHNOLOGIES

#### X

- Roundup Ready 2 Xtend<sup>®</sup>

#### LL

- LibertyLink<sup>®</sup>

#### RS2

- Genuity<sup>®</sup> Roundup Ready 2 Yield<sup>®</sup> with STS<sup>®</sup>
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<td>100</td>
<td>Short season stress hybrid, Consistent yields in the short season tests, Medium-tall plant with medium ear height, Very good stalks and excellent roots, Semi-flex ear type</td>
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<td>105</td>
<td>Widely adapted early hybrid, Top yields in short season tests in 2016, consistent in 2017, Very good Goss’s Wilt and greensnap tolerance, Medium-tall plant with medium ear height, Good stalks and roots, Good drought tolerance, Very good disease package</td>
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<tr>
<td>344</td>
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<td>108</td>
<td>Widely adapted hybrid, Very good drought tolerance, Medium plant height, medium ear height, Semi-flex ear, good greensnap tolerance, Good early canopy with wide leaves</td>
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### 347
**Available as: PR RIB**
- 108 DAYS
- Top yields for maturity in 2015-2017 Midland tests
- Medium-tall height, flex ear
- Good tolerance to GLS and Goss’s Wilt
- Very good roots and good stalks
- Widely adapted hybrid, works on most soils

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### 349
**Available as: PR RIB**
- 108 DAYS
- Top yields in 2017 tests
- Widely adapted hybrid for most soil types
- Medium height plant with medium ear height
- Good stalks and very good roots
- Semi-flex ear, very good greensnap tolerance

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### 429
**Available as: PR RIB, SS RIB**
- 110 DAYS
- Top yields in 2017 tests
- Excellent tolerance to stalk diseases
- Medium-tall plant with medium ear height
- Very good stalks and roots
- Excellent test weight and grain quality
- Good greensnap and GLS tolerance

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<tr>
<td>Stay Green</td>
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### 573
**Available as: PR RIB**
- 112 DAYS
- A top yielding hybrid in KS, MO, NE tests in 2011-2017
- Excellent stress tolerance
- Full flex ear, with very good Goss’s Wilt
- Excellent test weight and grain quality
- Very good stalks and roots

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<tbody>
<tr>
<td>Early Growth</td>
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<tr>
<td>Stay Green</td>
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### 594
**Available as: PR DG RIB**
- 112 DAYS
- DroughtGard® hybrid, drought tolerant trait
- Top of tests 2013-2017 in high and low yield environments
- Western adapted hybrid with good stalks and roots
- Very widely adapted, plant everywhere
- Tall plant with high ear height, very good greensnap tolerance
- Excellent Goss’s Wilt tolerance

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<td>Stay Green</td>
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### 653
**AVAILABLE AS:** PR RIB, SS RIB, CONVENTIONAL  
**113 DAYS**
- Consistent yields - drought tolerant
- Versatile, high yield potential under all conditions
- Widely adapted, very good stalks, and roots
- Canopies quickly, shorter plant height
- Semi-flex ear, good test weight, excellent early vigor
- EARLY GROWTH: 1.1  
- ROOT: 1.1  
- STALK: 1.3  
- STAY GREEN: 2.6

### 656
**AVAILABLE AS:** PR RIB  
**113 DAYS**
- #1 hybrid in 2015-2017 State and Midland tests
- Widely adapted hybrid for most soil types
- Very good drought tolerance and stalk rot tolerance
- Good Goss’s Wilt tolerance
- Medium plant height and ear height
- Very good stalks and good roots
- EARLY GROWTH: 1.5  
- ROOT: 2.0  
- STALK: 1.3  
- STAY GREEN: 2.0

### 669
**NEW**  
**AVAILABLE AS:** PR RIB, SS RIB  
**114 DAYS**
- Top in Midland tests 2016-2017
- Excellent stress tolerance
- Very good Goss’s Wilt and test weight
- Good stalks and average roots
- Full flex ear, average GLS tolerance
- EARLY GROWTH: 1.5  
- ROOT: 2.0  
- STALK: 1.8  
- STAY GREEN: 1.5

### 689
**NEW**  
**AVAILABLE AS:** PR RIB, SS RIB  
**114 DAYS**
- Preforms well in KS environments
- Semi-flex ear, excellent test weight
- Very good stalks and roots
- Very good early vigor and drought tolerance
- Performs well in tough conditions
- EARLY GROWTH: 1.4  
- ROOT: 1.4  
- STALK: 1.5  
- STAY GREEN: 1.5

### 709
**NEW**  
**AVAILABLE AS:** PR RIB, SS RIB  
**115 DAYS**
- Top hybrid in 2017 testing
- Widely adapted hybrid for most soil types
- Excellent stalks and roots
- Very good stress tolerance, top end yield potential
- Works well on continuous corn acres
- EARLY GROWTH: 1.2  
- ROOT: 1.4  
- STALK: 1.2  
- STAY GREEN: 1.3
<table>
<thead>
<tr>
<th>Variety</th>
<th>Available As:</th>
<th>Days to Maturity</th>
<th>Notes</th>
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</table>
| 714     | PR RIB, PRW RIB | 115 DAYS | - High yield potential  
- Full season but has fast drydown  
- Tall plant with silage potential  
- Very good stalks and roots, good Goss’s Wilt  
- Handles stress, goes into South Kansas and Missouri |
| 735     | PR RIB | 115 DAYS | - Top yields in Midland tests in 2013-2017 across KS, MO, NE  
- Very good stress tolerance with high yield potential  
- Full season but has fast drydown  
- Excellent stalks and roots, tolerates wet feet  
- Medium plant and ear height, good greensnap tolerance  
- Best on productive soils |
| 775     | PR DG RIB | 115 DAYS | - DroughtGard® hybrid, drought tolerant trait  
- High yield potential with semi-flex ear  
- Medium plant and ear height  
- Very good stalks and roots  
- Improved greensnap tolerance  
- Best in North Kansas, Nebraska, and North Missouri |
| 757     | PR RIB | 115 DAYS | - Full season hybrid with semi-flex ear  
- Top yields in Midland tests in 2015-2017  
- Consistent across KS, MO, and NE  
- Medium-tall plant with medium ear height  
- Widely adapted for most soils, handles stress  
- High test weight, good canopy closure |
## Product

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<th>GDD-Black Layer</th>
<th>Drydown</th>
<th>Drought Tolerance</th>
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**Rating Scale:** 1-5, 1 = Best
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<th>Root</th>
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<th>Goss’s Wilt</th>
<th>Fungicide Response</th>
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Rating Scale: 1-5, 1 = Best
Benefits of Exceed<sup>SAR</sup>

High Yielding Soybeans
- An increase of 5.5 bushels over the non-inoculated control was demonstrated in replicated Midwest trial locations for the 2016 growing season. See chart at right.

Nematode Suppression
- By disrupting the life cycle of the J1 and J2 soybean cyst nematode, Exceed<sup>SAR</sup> can alter the effect the nematode has on young soybean plants.
- A replicated greenhouse study performed in the fall of 2015 at Auburn University showed Exceed<sup>SAR</sup> to cause a decline in nematode populations over the control recorded by 84%. See chart at right.

Plant Vigor
- The Exceed<sup>SAR</sup> mode of action enables the seed to germinate quickly and stimulates plant hormones responsible for root formation and development. An increase in stand count of 12% DAE has been demonstrated in many trials across the midwest.

Components of Exceed<sup>SAR</sup>

Super Concentrated Liquid Inoculant
- 10 Billion (1x10<sup>10</sup>) active Bradyrhizobium japonicum per ml. This concentration allows for superior nodulation thus producing maximum nodulation and nitrogen fixation.

Low Viscosity Extender
- Up to 30% thinner than the leading brands of extender on the market, thus eliminating treatment system problems and bridging or clumping of seed.

Application Rates and Package Sizes
- New for 2017- Exceed<sup>SAR</sup> has a reduced on seed application rate.
- 2.0 fluid ounces/cwt when combined with the application of a seed treatment*.
- 0.94 fluid ounces/140,000 seeds
- 2x250 case size and the 4x50 case size, both sizes come 48 case per pallet.

*When used alone add non-chlorinated water for a total application rate to 5.0 fluid ounces/cwt
The active ingredient in ExceedSAR is Chitosan (poly-D-glucosamine) which is contained in the rhizobium extender. It has gone through the rigorous, lengthy, and very expensive process of deeming a product worthy of an EPA approved substance for use in agriculture.

**EPA Label for ExceedSAR**
- To paraphrase the EPA label, the Chitosan molecule in ExceedSAR can boost seed germination and vitality, enhance plant vigor, increase crop yields, and suppress plant parasitic nematodes.
- For many crops including legumes; it protects against fungus, mosaic virus, stem wilt, damp-off, early and late blight, and mold.

**ExceedSAR Mode of Action**
- Systemic Acquired Resistance (SAR) is a mechanism of plant defense that provides broad spectrum protection against multiple pathogens including both disease and nematodes.
- ExceedSAR behaves like a general plant elicitor, inducing a non-host resistance and priming the systemic acquired immunity within the plant’s cellular tissue. In other words, the Chitosan molecule tricks the plant into thinking it’s being attacked by a pathogenic force.
- SAR takes as little as 24-48 hours to activate plant responses, and lasts through the early stages of plant growth when disease and nematode pressure are most detrimental.
- See chart at right to understand the different stages of how ExceedSAR protects soybean plants.

**Proprietary Manufacturing Process of ExceedSAR**
- The proprietary manufacturing process to produce the Chitosan molecule, contained in ExceedSAR allows for a concentrated version without any adverse effect on the rhizobium. The molecule is considered a bio-chemical therefore allowing it to be very stable on the seed until time of planting and enhances the adherence of inoculants on seed.
- The short molecular chain of the ExceedSAR Chitosan allows the chemical to more effectively bind to receptor sites in the plant cell wall thus giving the plant faster defense against diverse pathogens, including bacteria, fungi, and nematodes.
- ExceedSAR triggers signaling to increase structural integrity and rapid alteration of the cell wall, initiates the synthesis of pathogenic-related proteins and phytoalexins (to inhibit parasite growth), and produces or activates various defense related enzymes including salicylic acid, jasmonic acid, and ethylene.
Soybean Products

**4263 NRS2**

- Early Group IV Maturity
- Top seller in central Kansas, high yields
- Excellent S.D.S. tolerance
- Medium plant height, handles stress
- “Stacked” with STS® tolerance
- Cyst resistant

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**4963 NRS2**

- Late Group IV Maturity
- Top Late Group IV Yields KS and MO 2012-2017 Midland tests
- Top of Southeast KS state tests in 2014-2017
- “Stacked” with STS® tolerance
- Medium height plant
- Very good against green stems

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**LEGAL**

Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management for the biotechnology traits expressed in the seed as set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements.

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto’s Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Only commercialized products have been approved for import into key export markets with functioning regulatory systems. Certain products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted.

**DuPont® STS**

- **4263 NRS2**
- **4963 NRS2**

**DuPont® STS** is a registered trademark of DuPont or its affiliates. Varieties with the DuPont™ STS® gene (STS) are tolerant to certain SU (sulfonamide) herbicides. This technology allows post-emergent applications of DuPont™ Synchrony® XP and DuPont™ Classic® herbicides without crop injury or stress (see herbicide product label). NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. "Stacked" means the variety is tolerant to both the herbicide tolerant trait and B.t. products.

**Soybean Products**

- **4263 NRS2**
- **4963 NRS2**

**Soybean Products**

- **4263 NRS2**
- **4963 NRS2**

**Soybean Products**

- **4263 NRS2**
- **4963 NRS2**
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<th>Maturity</th>
<th>Performance Details</th>
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| 3017 NX  | Early Group III | » Consistent yields, Northern Kansas and Nebraska  
» Tall plant height with good standability  
» Very good S.D.S. tolerance  
» Excellent stress tolerance  
» Has salt excluder | 3.0 RM  
**Emergence:** 1.6  
**Standability:** 2.0  
**Shatter:** 1.1  
**P.R.R.:** 1.7  
**S.D.S.:** 1.5 |
| 3537 NX  | Mid Group III  | » Widely adapted variety with top yields in 2016-2017 tests  
» Medium-tall plant with good standability  
» Wide plant, fills in rows quickly  
» Very good stress tolerance, fast emergence | 3.5 RM  
**Emergence:** 1.3  
**Standability:** 1.8  
**Shatter:** 1.1  
**P.R.R.:** 1.7  
**S.D.S.:** 2.0 |
| 3779 NXS | Late Group III | » Top yields in breeder tests in 2017 in KS, MO, and NE  
» “Stacked” with STS® tolerance  
» Medium-tall plant with good standability  
» Has salt excluder | 3.7 RM  
**Emergence:** 1.4  
**Standability:** 1.9  
**Shatter:** 1.1  
**P.R.R.:** 1.9  
**S.D.S.:** 2.0 |
| 3938 NX  | Late Group III | » Top yields in Kansas, Missouri, and Nebraska tests 2017  
» Medium-tall plant with good standability  
» Excellent stress tolerance, fills in the rows  
» Excellent S.D.S. tolerance | 3.9 RM  
**Emergence:** 2.0  
**Standability:** 2.0  
**Shatter:** 1.0  
**P.R.R.:** 1.9  
**S.D.S.:** 1.5 |
| 4247 NXS | Early Group IV | » Consistent yields under stress in breeder tests  
» Tall, light tawny plant  
» “Stacked” with STS® tolerance  
» Good standability, cyst resistant | 4.2 RM  
**Emergence:** 1.7  
**Standability:** 2.3  
**Shatter:** 1.0  
**P.R.R.:** 1.8  
**S.D.S.:** 2.1 |
# Soybean Products

**4278NX**  
Roundup Ready 2 Xtend® Soybeans  
**Rating:** 4.3 RM

- Early Group IV Maturity
- Medium-tall plant that stands well
- Widely adapted for most soils
- Top yields in South Central Kansas
- Canopies quickly

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<td>2.0</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.1</td>
</tr>
</tbody>
</table>

**4418NXS**  
Roundup Ready 2 Xtend® Soybeans with STS®  
**Rating:** 4.4 RM

- Mid Group IV Maturity
- Top yields in South Central Kansas
- Tall plant with good standability
- "Stacked" with STS® tolerance
- Excellent Double Crop

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.8</td>
</tr>
<tr>
<td>Standability</td>
<td>2.4</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>2.2</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.4</td>
</tr>
</tbody>
</table>

**4598NX**  
Roundup Ready 2 Xtend® Soybeans  
**Rating:** 4.5 RM

- Mid Group IV Maturity
- Medium plant height
- Medium-bush plant type
- Very good standability
- Has salt “excluder”

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>2.0</td>
</tr>
<tr>
<td>Standability</td>
<td>1.8</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>3.0</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**4677NXS**  
Roundup Ready 2 Xtend® Soybeans with STS®  
**Rating:** 4.6 RM

- Mid Group IV Maturity
- Top yields in SE Kansas and Missouri in 2016 testing
- Medium-tall height, with good standability
- “Stacked” with STS® tolerance
- Excellent green stem tolerance
- Has salt “excluder”

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.3</td>
</tr>
<tr>
<td>Standability</td>
<td>1.7</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>2.1</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.1</td>
</tr>
</tbody>
</table>

**4838NXS**  
Roundup Ready 2 Xtend® Soybeans with STS®  
**Rating:** 4.8 RM

- Late Group IV Maturity
- Tall plant with good standability
- Excellent S.D.S. tolerance
- Adapted to Kansas East to West
- “Stacked” with STS® tolerance
- Has salt “excluder”

<table>
<thead>
<tr>
<th>Trait</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.9</td>
</tr>
<tr>
<td>Standability</td>
<td>2.0</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>2.3</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>1.5</td>
</tr>
</tbody>
</table>
### Soybean Products

**3997 NLL**  
**LibertyLink® Soybean**  
**Rating: 3.9**  

- **Maturity:** Late Group III  
- **Yield:** Consistent top yields in 2016-2017 tests across Northern Kansas and Nebraska  
- **Height:** Medium plant height, tawny color  
- **Emergence:** Fast emergence  
- **Standability:** Very good standability and S.D.S. tolerance  

**Rating Scale:** 1-5, 1 = Best

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.2</td>
</tr>
<tr>
<td>Standability</td>
<td>1.6</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>1.7</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>1.8</td>
</tr>
</tbody>
</table>

**4286 NLL**  
**LibertyLink® Soybean**  
**Rating: 4.2**  

- **Maturity:** Early Group IV  
- **Yield:** Top early IV in Midland LibertyLink® tests in 2014-2017  
- **Height:** Medium height plant with very good standability  
- **Color:** Light tawny plant color  

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.2</td>
</tr>
<tr>
<td>Standability</td>
<td>1.6</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>1.8</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>1.9</td>
</tr>
</tbody>
</table>

**4416 NLS**  
**LibertyLink® Soybean with STS®**  
**Rating: 4.4**  

- **Maturity:** Mid Group IV  
- **STS Tolerance:** “Stacked” with STS® tolerance  
- **Performance:** Good for “double crop”  
- **Yield:** Stable yields in double crop fields  
- **Plant:** Medium height, light tawny plant  

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.1</td>
</tr>
<tr>
<td>Standability</td>
<td>1.9</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>1.7</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.1</td>
</tr>
</tbody>
</table>

**4696 NLL**  
**LibertyLink® Soybean**  
**Rating: 4.6**  

- **Maturity:** Mid Group IV  
- **Yield:** Top of tests in 2014-2017 in South Kansas and Missouri  
- **Height:** Fast emergence, medium-tall plant  
- **Response:** Responds to high yield environments  
- **Color:** Light tawny color  

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.1</td>
</tr>
<tr>
<td>Standability</td>
<td>2.0</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>1.8</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**4837 NLL**  
**LibertyLink® Soybean**  
**Rating: 4.8**  

- **Maturity:** Late Group IV  
- **Yield:** #1 Group IV in 2016-2017 Midland LibertyLink® tests  
- **Height:** Tall plant with good standability  
- **S.D.S.:** Average S.D.S. tolerance  
- **Cyst Nematode:** Very good cyst nematode resistance  
- **Adaptation:** Widely adapted for most soils  

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergence</td>
<td>1.3</td>
</tr>
<tr>
<td>Standability</td>
<td>2.0</td>
</tr>
<tr>
<td>Shatter</td>
<td>1.0</td>
</tr>
<tr>
<td>P.R.R.</td>
<td>1.8</td>
</tr>
<tr>
<td>S.D.S.</td>
<td>2.1</td>
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</table>
# Soybean Products

<table>
<thead>
<tr>
<th>Product</th>
<th>STS®</th>
<th>Relative Maturity</th>
<th>Height</th>
<th>Emergence</th>
<th>Standability</th>
<th>Shatter</th>
<th>P.B.</th>
<th>S.D.</th>
<th>I.D.</th>
<th>CYSF</th>
<th>Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENUITY® ROUNDUP READY 2 YIELD® SOYBEANS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GENUITY® ROUNDUP READY 2 YIELD® WITH STS®</td>
</tr>
<tr>
<td>4263NRS2 X</td>
<td>4.2</td>
<td>Medium</td>
<td>1.4</td>
<td>2.0</td>
<td>1.1</td>
<td>2.2</td>
<td>2.0</td>
<td></td>
<td></td>
<td></td>
<td>R3, MR1 Top seller in South Central Kansas, &quot;stacked&quot; with STS®</td>
</tr>
<tr>
<td>4963NRS2 X</td>
<td>4.9</td>
<td>Medium</td>
<td>2.1</td>
<td>2.0</td>
<td>1.0</td>
<td>2.3</td>
<td>2.0</td>
<td></td>
<td></td>
<td></td>
<td>R3, MR1 &quot;Stacked&quot; with STS®, top yields in tests 2012-2017</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ROUNDUP READY 2 XTEND® SOYBEANS</strong></th>
<th><strong>ROUNDUP READY 2 XTEND® WITH STS®</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3017NX</td>
<td>3.0 Tall 1.6 2.0 1.1 1.5 1.9 R3, MR1 4</td>
</tr>
<tr>
<td>3337NX</td>
<td>3.5 Medium-Tall 1.3 1.8 1.1 1.7 2.0 R3, MR1 4</td>
</tr>
<tr>
<td>3648NX</td>
<td>3.6 Tall 1.8 2.0 1.0 1.9 1.9 R3, MR1 4</td>
</tr>
<tr>
<td>3779NKS X</td>
<td>3.7 Medium-Tall 1.4 1.9 1.1 1.9 2.0 2.1 R3, MR1 4</td>
</tr>
<tr>
<td>3938NKS X</td>
<td>3.9 Medium-Tall 2.0 2.0 1.0 1.9 1.5 R3, MR1 4</td>
</tr>
<tr>
<td>4247NKS X</td>
<td>4.2 Tall 1.7 2.3 1.0 1.8 2.1 R3, MR1 4</td>
</tr>
<tr>
<td>4278NX</td>
<td>4.3 Medium-Tall 1.5 1.9 1.0 2.0 2.1 R3, MR1 4</td>
</tr>
<tr>
<td>4418NKS X</td>
<td>4.4 Tall 1.8 2.4 1.0 2.2 2.4 R3, MR1 4</td>
</tr>
<tr>
<td>4598NX</td>
<td>4.5 Medium 2.0 1.8 1.0 3.0 2.5 2.5 R3, MR1 4</td>
</tr>
<tr>
<td>4677NKS X</td>
<td>4.6 Medium-Tall 1.3 1.7 1.0 2.1 2.1 R3, MR1 4</td>
</tr>
<tr>
<td>4838NKS X</td>
<td>4.8 Tall 1.9 2.0 1.0 2.3 1.5 R3, MR1 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LIBERTYLINK® SOYBEANS</strong></th>
<th><strong>LIBERTYLINK® WITH STS®</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3997NLL 3.9 Medium 1.2 1.6 1.0 1.7 1.8 2.4 R3, MR1 4</td>
<td>Top yields in 2015-2017 tests, very good standability</td>
</tr>
<tr>
<td>4286NLL 4.2 Medium 1.2 1.6 1.0 1.8 1.9 - R3, MR1 4</td>
<td>Top yields in 2014-2017 tests, best Early Group IV</td>
</tr>
<tr>
<td>4416NLS X 4.4 Medium 1.1 1.9 1.0 1.7 2.1 R3, MR1 4</td>
<td>&quot;Stacked&quot; with STS®, great for double crop</td>
</tr>
<tr>
<td>4696NLL 4.6 Medium-Tall 1.1 2.0 1.0 1.8 2.5 R3, MR1 4</td>
<td>Top yields in 2014-2017 tests south of I-70</td>
</tr>
<tr>
<td>4837NLL 4.8 Tall 1.3 2.0 1.0 1.8 2.1 1.7 R3, MR1 4</td>
<td>Best yielding late IV, tall with good standability</td>
</tr>
</tbody>
</table>

**Soybean Piracy Statement**

Seed containing a patented trait can only be used to plant a single commercial crop from which seed cannot be saved and replanted. Examples of seed containing a patented trait include, but are not limited to: Genuity® Roundup Ready 2 Yield® soybeans, Roundup Ready 2 Xtend® soybeans, Genuity® Roundup Ready® spring canola, and Genuity® Roundup Ready® winter canola. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement and the Monsanto Technology Use Guide. U.S. patents for Monsanto technologies can be found at the following webpage: [http://www.monsantotechnology.com](http://www.monsantotechnology.com)

**LibertyLink® Patent Statement**

Seeds containing the LibertyLink® trait may be protected under one or more U.S. patents and may be planted only to produce one (1) commercial crop in a single season, and only after signing a BASF Grower Technology Agreement. It is illegal to save seeds containing the LibertyLink® trait for use as planting seed or for transfer to others for use as planting seed.
### Top Productivity with High Resistance to Aphanomyces Root Rot Race 1 and 2
- Trial topping forage yield with Traffic Tested® variety performance
- Perfect disease resistance score of 35/35 DRI with HR for both races 1 and 2 of Aphanomyces
- Selected for superior forage quality
- Very fast recovery for frequent harvest schedules under intensive management
- Improved salt tolerance of germinating seeds*

### Top Quality Traffic Tested® Alfalfa with Roundup Ready® Tolerance
- Performance of very popular AmeriStand 407TQ with herbicide resistance
- Excellent forage quality for optimal animal performance
- Very fast recovery for frequent harvest schedules under intensive management
- Improved salt tolerance of germinating seeds*

### Characteristics

<table>
<thead>
<tr>
<th>Variety</th>
<th>Fall Dormancy</th>
<th>WinterHardiness</th>
<th>Cuttings/Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>AmeriStand 455TQ RR</td>
<td>4.4</td>
<td>2.0</td>
<td>4-5</td>
</tr>
<tr>
<td>AmeriStand 455TQ RR</td>
<td>4.4</td>
<td>2.0</td>
<td>4-5</td>
</tr>
<tr>
<td>AmeriStand 480 HVXRR</td>
<td>4.0</td>
<td>1.8</td>
<td>4-5</td>
</tr>
<tr>
<td>AmeriStand 427TQ</td>
<td>4.3</td>
<td>1.8</td>
<td>4-5</td>
</tr>
<tr>
<td>AmeriStand 427TQ</td>
<td>4.3</td>
<td>1.8</td>
<td>4-5</td>
</tr>
</tbody>
</table>

HR = >51% Resistance, R = 31-50% Resistance, MR = 15-30% Resistance, LR = 6-14% Resistance

*In tests established by the NAAIC Review Board, this variety demonstrated improved salt tolerance of germinating seeds (Ger) as compared to the industry salt tolerant checks in each category. References available upon request.

### 28 DAY VS. 35 DAY FORAGE YIELD

#### 3 YEAR SUMMARY | WEST SALEM, WI (F13 SEEDING)

<table>
<thead>
<tr>
<th>Year</th>
<th>28d</th>
<th>35d</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yr 1: 15%</td>
<td>Yr 1: 15%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yr 2: 30%</td>
<td>Yr 2: 30%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yr 3: 40%</td>
<td>Yr 3: 40%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: 35d quality was equal to/better than 28d quality

### FALL DORMANCY

<table>
<thead>
<tr>
<th>Variety</th>
<th>Dormancy</th>
<th>WinterHardiness</th>
<th>Cuttings/Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>AmeriStand 480 HVXRR</td>
<td>4.0</td>
<td>1.8</td>
<td>4-5</td>
</tr>
</tbody>
</table>

### Winter Hardiness Scale: 1-5, 1 = Best

- **AmeriStand 480 HVXRR**
  - WINTERHARDINESS: 2.2
  - CUTTINGS/SEASON: 4-5

### 28 Day vs. 35 Day Forage Yield

- HarvXtra® Alfalfa delayed harvest 35 day cut compared to Roundup Ready® Alfalfa 28 day cut showed an average of a 30% yield increase over 3 years
- Forage Genetics International's (FGI's) HarvXtra® Alfalfa with Roundup Ready® Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc. © 2017 Forage Genetics International, LLC

### Technology认可

- HarvXtra® Alfalfa with Roundup Ready® Technology is developed to maximize quality
- Gives growers the ability to better manage the yield-versus-quality tradeoff
- Offers more flexibility in cutting schedule to achieve improved forage quality or greater yield potential when compared to conventional alfalfa at the same stage of maturity
- Fast recovery for frequent harvest schedules under intensive management

### Rating Scale: 1-5, 1 = Best

<table>
<thead>
<tr>
<th>Variety</th>
<th>Fall Dormancy</th>
<th>WinterHardiness</th>
<th>Cuttings/Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>AmeriStand 455TQ RR</td>
<td>4.4</td>
<td>2.0</td>
<td>4-5</td>
</tr>
<tr>
<td>AmeriStand 472TQ</td>
<td>4.3</td>
<td>1.8</td>
<td>4-5</td>
</tr>
</tbody>
</table>

### Forage Genetics International's (FGI's) HarvXtra® Alfalfa with Roundup Ready® Technology

- Superior forage quality
- Fast recovery for frequent harvest schedules under intensive management
- Improved salt tolerance of germinating seeds*

### 28 Day vs. 35 Day Forage Yield

- Forage Genetics International’s (FGI’s) HarvXtra® Alfalfa with Roundup Ready® Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc. © 2017 Forage Genetics International, LLC
- Due to factors outside of FGI’s control, such as weather, crop production patterns, and other factors, results to be obtained, including but not limited to yields or financial performance, cannot be predicted or guaranteed by FGI. Results are based upon FGI controlled farms and field trials and public trials. Actual results may vary.
## Sorghum Products

**BUILT BY FAMILY. BACKED BY PERFORMANCE.**

### FOOD GRADE

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5745W</td>
<td>105-110 Days</td>
<td>Medium maturity, White grain, Excellent drought tolerance, Food grade hybrid with tan plant color, Very good choice for double crop</td>
</tr>
<tr>
<td>W902</td>
<td>115-120 Days</td>
<td>Medium-late maturity, White grain, Excellent yield potential, Food grade hybrid with tan plant color, Good overall plant health</td>
</tr>
</tbody>
</table>

### HAY AND BALE PRODUCTS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super Sioux</td>
<td>Medium-Early</td>
<td>Sorghum-Sudangrass, 55 days to boot stage, Juicy, semi-sweet stalks, Excellent regrowth, Great quality for haying or grazing</td>
</tr>
<tr>
<td>Super Sioux Def.</td>
<td>Medium-Early</td>
<td>Sorghum-Sudangrass, 55 days to boot stage, SCA tolerant, Excellent regrowth, Great quality for haying or grazing</td>
</tr>
<tr>
<td>Kritter Kandy II</td>
<td>Medium-Early</td>
<td>BMR Sorghum-Sudangrass, 50-60 days to boot stage, High TDN values, Significantly improved digestibility, High yields under top management</td>
</tr>
<tr>
<td>Kandy Graz</td>
<td>Medium-Early</td>
<td>BMR 6 Sorghum-Sudangrass, 50-60 days to boot stage, Highly palatable, Low water requirements</td>
</tr>
<tr>
<td>N-rgy Leaf</td>
<td>Medium-Early</td>
<td>BMR 6 Sorghum-Sudangrass, 50-60 days to first harvest, Brachytic dwarf for maximum leaf area and standability, High sugar content, Very good drought tolerance</td>
</tr>
<tr>
<td>Shorty</td>
<td>Medium-Late</td>
<td>BMR 6 Sorghum-Sudangrass, Brachytic dwarf for maximum leaf area and standability, Medium-late maturity, Newest generation BMR for improved digestibility and palatability, Produces equal or higher tonnage than taller hybrids</td>
</tr>
<tr>
<td>Tall One</td>
<td>Full</td>
<td>Hybrid Forage Sorghum, Full season 120 to harvest silage, Very tall with good standability, Good drought tolerance, Very good tonnage, Very sweet with high sugar content</td>
</tr>
</tbody>
</table>

### SILAGE PRODUCTS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 808</td>
<td>Medium-Long</td>
<td>BMR 6 Sorghum Bicolor, High yields, Newest generation of BMR quality, Brachytic dwarf for maximum leaf area and standability, Very high leaf to stem ratio, Excellent drought tolerance</td>
</tr>
<tr>
<td>MG 809W</td>
<td>Medium-Long</td>
<td>BMR 6 Forage Sorghum, White grain color, Brachytic dwarf for maximum leaf area and standability, Widely adapted, Very good silage yields</td>
</tr>
</tbody>
</table>

### HAY AND BALE PRODUCTS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG 809W</td>
<td>Medium-Long</td>
<td>BMR 6 Forage Sorghum, White grain color, Brachytic dwarf for maximum leaf area and standability, Widely adapted, Very good silage yields</td>
</tr>
<tr>
<td>Shorty</td>
<td>Medium-Late</td>
<td>BMR 6 Sorghum-Sudangrass, Brachytic dwarf for maximum leaf area and standability, Medium-late maturity, Newest generation BMR for improved digestibility and palatability, Produces equal or higher tonnage than taller hybrids</td>
</tr>
</tbody>
</table>

### SILAGE PRODUCTS

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tall One</td>
<td>Full</td>
<td>Hybrid Forage Sorghum, Full season 120 to harvest silage, Very tall with good standability, Good drought tolerance, Very good tonnage, Very sweet with high sugar content</td>
</tr>
</tbody>
</table>

**SILAGE PRODUCTS**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
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<tr>
<td>Shorty</td>
<td>Medium-Late</td>
<td>BMR 6 Sorghum-Sudangrass, Brachytic dwarf for maximum leaf area and standability, Medium-late maturity, Newest generation BMR for improved digestibility and palatability, Produces equal or higher tonnage than taller hybrids</td>
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**FOOD GRADE**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Description</th>
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<tbody>
<tr>
<td>5745W</td>
<td>105-110 Days</td>
<td>Medium maturity, White grain, Excellent drought tolerance, Food grade hybrid with tan plant color, Very good choice for double crop</td>
</tr>
<tr>
<td>W902</td>
<td>115-120 Days</td>
<td>Medium-late maturity, White grain, Excellent yield potential, Food grade hybrid with tan plant color, Good overall plant health</td>
</tr>
</tbody>
</table>
Sorghum Products

GRAIN SORGHUM

<table>
<thead>
<tr>
<th>Product</th>
<th>Days to 1/2 Bloom</th>
<th>Relative Maturity</th>
<th>Height</th>
<th>Head Type</th>
<th>Grain Color</th>
<th>Stalk Strength</th>
<th>Drought Stress</th>
<th>SCA Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4595</td>
<td>55-60</td>
<td>90-100</td>
<td>30-36</td>
<td>Semi-Open</td>
<td>Bronze</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>4656Y</td>
<td>59-63</td>
<td>105-110</td>
<td>30-36</td>
<td>Semi-Open</td>
<td>Cream</td>
<td>Good</td>
<td>Good</td>
<td>Not rated</td>
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<tr>
<td>4748</td>
<td>62-65</td>
<td>100-110</td>
<td>38-48</td>
<td>Semi-Open</td>
<td>Bronze</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Not rated</td>
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<tr>
<td>4758Y</td>
<td>62-65</td>
<td>105-110</td>
<td>44-48</td>
<td>Semi-Open</td>
<td>Yellow</td>
<td>Outstanding</td>
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<tr>
<td>W902</td>
<td>68-70</td>
<td>115-120</td>
<td>48-54</td>
<td>Semi-Compact</td>
<td>White</td>
<td>Excellent</td>
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</table>

SUGARCANE APHID TOLERANT HYBRIDS

<table>
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<tr>
<th>Product</th>
<th>Days to 1/2 Bloom</th>
<th>Relative Maturity</th>
<th>Height</th>
<th>Head Type</th>
<th>Grain Color</th>
<th>Stalk Strength</th>
<th>Drought Stress</th>
<th>SCA Tolerance</th>
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</thead>
<tbody>
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<td>5745W</td>
<td>58-62</td>
<td>105-110</td>
<td>40-45</td>
<td>Semi-Open</td>
<td>White</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
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<tr>
<td>5790</td>
<td>68-70</td>
<td>110-115</td>
<td>48-54</td>
<td>Semi-Open</td>
<td>Red</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>5727</td>
<td>70-74</td>
<td>115-115</td>
<td>40-46</td>
<td>Semi-Open</td>
<td>Red</td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>5797</td>
<td>72-76</td>
<td>115-120</td>
<td>40-46</td>
<td>Semi-Open</td>
<td>Bronze</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

Usage: H - Hay, G - Grazing, S - Silage, GC - Green Chop | Maturity: ME - Medium-Early, ML - Medium-Late, F - Full Season | Rating Scale: 1-5, 1 = Best
# Cover Crops

**SPRING**

**Spring Triticale**  
- Cool season grass  
- Upright plant  
- High water use and good salinity tolerance  
- Will form arbuscular mycorrhizal associations  
- Very good forage quality and quantity

**Spring Barley**  
- Cool season grass  
- Upright plant  
- Low water use and good salinity tolerance  
- Benefits from arbuscular mycorrhizal association  
- Very good forage production  
- Very good nitrogen scavenger

**Black Oats**  
- Cool season grass  
- Winter cereal for Zone 8 and warmer  
- Very fibrous root mass and tillers well  
- Very good biomass production  
- Works as a spring planted crop in colder climates  
- Very durable residue when it reaches maturity

**Safflower**  
- Warm season broadleaf  
- Upright plant  
- High water use and good salinity tolerance  
- Deep rooting plant that can aid in reducing soil compaction  
- Effective at reclaiming mobile nutrients deep in the soil profile  
- Will form arbuscular mycorrhizal associations and flowers attract pollinators

**Yellow Field Peas**  
- Cool season legume  
- Upright plant  
- Low water use  
- Poor salinity tolerance  
- Forms arbuscular mycorrhizal associations  
- Self pollinated, but flowers may attract pollinators

**Lentils**  
- Cool season legume  
- Upright and spreading plant  
- Low water use  
- Poor salinity tolerance  
- Forms arbuscular mycorrhizal associations  
- Self pollinated

**Spring Forage Peas**  
- Cool season legume  
- Upright plant  
- Low water use  
- Poor salinity tolerance  
- Flowers attract pollinators  
- Forms arbuscular mycorrhizal associations

**AC Greenfix (chickling vetch)**  
- Cool season legume  
- Very good nitrogen producer  
- Good forage production  
- Very efficient with moisture  
- Short season plant, can produce up to 134# at 72 days of growth

**SUMMER**

**Sunn Hemp**  
- Warm season legume  
- Upright plant  
- Tolerates poor, sandy, droughty soils and requires good drainage  
- Has a strong taproot with many well-developed lateral roots  
- Very good nitrogen producer  
- Can produce 6-7 tons dry matter per acre

**Laredo Soybeans**  
- Warm season legume  
- Upright and spreading plant  
- Medium water use  
- Black seeded, pure forage soybean  
- Self pollinated, but flowers may attract pollinators  
- Forms arbuscular mycorrhizal associations

**Cowpeas**  
- Warm season legume  
- Upright and spreading plant [vines]  
- Low or medium water use  
- Poor salinity tolerance  
- Flowers attract pollinators  
- Forms arbuscular mycorrhizal associations

**Mungbeans**  
- Warm season legume  
- Upright and spreading plant [vines]  
- Low water use  
- Poor salinity tolerance  
- Forms arbuscular mycorrhizal associations  
- Self pollinated

**Chickpeas**  
- Warm season legume  
- Upright and spreading plant [vines]  
- Low water use  
- Poor salinity tolerance  
- Forms arbuscular mycorrhizal associations  
- Self pollinated

**Sunflowers**  
- Warm season broadleaf  
- Upright plant  
- High water use and fair salinity tolerance  
- Deep rooting plant that can aid in reducing soil compaction  
- Effective at reclaiming mobile nutrients deep in the soil profile  
- Will form arbuscular mycorrhizal associations and flowers attract pollinators

**Sorghum Sudangrass**  
- Warm season grass  
- Upright plant  
- Medium water use  
- Fair salinity tolerance  
- Benefits from arbuscular mycorrhizal associations  
- Self pollinated by the wind

**Pearl Millet**  
- Warm season grass  
- Upright plant  
- Low water use  
- Good protein content  
- Self pollinated by the wind  
- Will form arbuscular mycorrhizal associations

**Guar**  
- Warm season legume  
- Very good heat tolerance and drought tolerance  
- 90-120 day maturity

**FALL**

**Subterranean Clover**  
- Legume  
- Reseeding cool season annual  
- Excellent weed and erosion suppressor  
- Prostrate very dense plant growth  
- Forms seed pods at, or below ground level

**Annual Rye Grass**  
- Cool season grass  
- Annual or perennial types  
- Medium water use  
- Fair salinity tolerance  
- Will form arbuscular mycorrhizal associations  
- Very good nitrogen scavenger

**Phacelia**  
- Cool season broadleaf [Bassica]  
- Upright and spreading plant  
- High water use and poor salinity tolerance  
- Very good nitrogen scavenger  
- Attracts beneficial insects

**Buckwheat**  
- Cool season broadleaf with warm season growth characteristics  
- Upright plant  
- Medium water use and poor salinity tolerance  
- Enhances soil P availability  
- Does not form arbuscular mycorrhizal associations  
- Atracts pollinators very well

**Oil Seed Radish**  
- Cool season broadleaf [Bassica]  
- Upright and spreading plant  
- High water use and fair salinity tolerance  
- Good at scavenging nitrogen  
- Good forage production  
- Does not form arbuscular mycorrhizal associations

**Turnips**  
- Cool season broadleaf [Brassica]  
- Upright and spreading plant  
- High water use and poor salinity tolerance  
- Good at scavenging nitrogen  
- Good forage production  
- Does not form arbuscular mycorrhizal associations

**Dwarf Essex Rape**  
- Cool season broadleaf  
- Belongs to the cabbage family  
- High protein and high energy level feed  
- Very cold, heat and drought tolerant  
- Valuable feed source when other crops are in a summer dump  
- Good nutrient scavenger

**Hybrid Forage Brassicas**  
- Works well in fall and spring plantings, as well as summer  
- High protein and high energy level feed  
- Usually very cold, heat, and drought tolerant  
- Bred specifically for forage production and grazing  
- Very good regrowth after grazing  
- Very good RFV

**Ethiopian Cabbage**  
- Unique, multipurpose Brassica cultivar  
- Very good biofumigant  
- Very fast growing  
- Generally flowers in 60 days  
- Effective taproot  
- Up to 3,000 lb. DM/acre
## WINTER

**Austrian Winter Peas**
- Cool season legume
- Upright plant
- Low water use
- Poor salinity tolerance
- Flowers attract pollinators
- Forms arbuscular mycorrhizal associations

**Common Vetch**
- Cool season legume
- Annual or biennial
- Prostrate plant
- Low to medium water use and poor salinity tolerance
- Forms arbuscular mycorrhizal associations
- Flowers attract pollinators

**Hairy Vetch**
- Cool season legume
- Annual or biennial
- Prostrate plant
- Low to medium water use and poor salinity tolerance
- Forms arbuscular mycorrhizal associations
- Flowers attract pollinators

**Lupins**
- Cool season legume
- Upright plant
- Low water use
- Prefers acid soils
- Flowers attract pollinators
- Does not form arbuscular mycorrhizal associations

**Winter Barley**
- Cool season grass
- Upright plant
- Low water use and good salinity tolerance
- Benefits from arbuscular mycorrhizal associations
- Very good forage production
- Very good nitrogen scavenger

**Winter Triticale**
- Cool season grass
- Upright plant
- High water use and good salinity tolerance
- Excellent regrowth
- Very good forage quality and quantity
- Will form arbuscular mycorrhizal associations

**Winter Oats**
- Cool season grass
- Upright plant
- Walken oats have enough cold tolerance to survive our winters for the last 6 years
- Very good early and late forage production
- Medium water use and fair salinity tolerance
- Very good nitrogen scavenger
- Will form arbuscular mycorrhizal associations

**Cereal Rye**
- Cool season grass
- Upright plant
- High water use and good salinity tolerance
- Will form arbuscular mycorrhizal associations
- Very good nitrogen scavenger
- Very good residue builder

**Canola**
- Cool season broadleaf
- Annual and biennial
- Upright and spreading plant
- Medium water use and good salinity tolerance
- Very good at scavenging nitrogen and other nutrients from the soil
- Flowers attract pollinators, and it does not form arbuscular mycorrhizal associations

## PERENNIAL

**Alfalfa**
- Perennial legume
- Upright plant
- High water use and poor salinity tolerance generally
- Non-dormant cultivators can perform like an annual
- Forms arbuscular mycorrhizal associations
- Flowers attract pollinators

**Red Clover**
- Legume
- Biennial or short lived perennial
- Upright plant
- Medium water use and poor salinity tolerance
- Forms arbuscular mycorrhizal associations
- Flowers attract pollinators

**Crimson Clover**
- Legume
- Annual or biennial
- Upright plant
- Thrives well on both well-drained sandy soils and clay type soils
- Does not do well in extreme cold or heat
- Good quick producer of nitrogen

**White Clover**
- Legume
- Perennial
- Upright plant
- Medium water use and poor salinity tolerance
- Forms arbuscular mycorrhizal associations
- Flowers attract pollinators

**Yellow Sweet Clover**
- Legume
- Annual/biennial
- Upright plant
- Thrives well on both well-drained sandy soils and clay type soils
- Does not form arbuscular mycorrhizal associations
- Flowers attract pollinators

**Chicory**
- Warm season broadleaf
- Perennial
- Upright and spreading plant (vine)
- Will form arbuscular mycorrhizal associations
- Attracts pollinators
Think Before You Bin-Run

Verification Required
Most soybeans are still covered by a variety patent, and you will not be able to save and plant the seed from those varieties without a license giving you that added right. Check with your seed supplier before saving.

Higher Seeding Rate
Higher seeding rates may be required for bin-run compared to new branded seed.

Yield Loss
Genuity® Roundup Ready 2 Yield® soybean seed outyielded bin-run Roundup Ready® soybeans by 6.1 bu/A.¹

Cleanout Loss
Loss of seed or shrink occurs during seed cleaning and handling processes for bin-run seed.

Lost Income
Income lost by not selling a bushel of soybeans that is saved for planting the next year.

The higher yielding trait technology of Roundup Ready 2 Yield soybeans showed a 6.1 bushel per acre advantage over original Roundup Ready soybeans.

High Value of New Branded Seed

Latest Technology
• Highest yielding soybean technology available
• Six soybean trait products anticipated to come from Monsanto in the next 2-7 years* ¹
• Leading seed treatment options

Customer Service
• Dealer agronomic support before and after the sale
• Replant policy support
• Convenient packaging and delivery

Reliable Germination and Quality
• Rigorously tested for quality and meets US Federal Seed Act requirements
• Free of seed-borne diseases
• Properly stored and conditioned

¹First year results of 2-year protocol study with independent cooperators across 8 locations examining the yield differences of saved Roundup Ready soybeans versus newly purchased Roundup Ready 2 Yield soybeans.

*Pending regulatory approvals.

For more information about seed technology, visit ASTA’s Beyond the Seed Program at www.beyondtheseed.org. ASTA, as a trade industry association, does not endorse products, services or technology of individual companies.

Monsanto receives hundreds of calls and letters nationwide each year about potential seed compliance matters. Anyone with concerns or questions can anonymously call 1-800-768-6387, Option 2.

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto’s Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Biotechnology Industry Organization.

Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Monsanto and Vine Design®, Roundup Ready 2 Yield®, Roundup Ready®, and Roundup® are registered trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2015 Monsanto Company. 32219 3J8L149893
Indigo Harnesses Nature To Help Farmers Sustainably Feed The Planet.

The Plant Microbiome
Like humans, plants have millions of microscopic bacteria and fungi (microbes) that work together to positively impact their ability to grow and thrive.

At Indigo, we identify the microbes that are most beneficial to a plant’s health through a scientific application of algorithms and machine learning. Our resulting seed treatment products complement a plant’s natural process to improve health and development across each phase of life, while boosting crop yields.

The Indigo Effect
We believe that a better world begins with agriculture.
This starts with
- Farms being profitable
- Agriculture conserving natural resources
- Meeting consumers’ desire to understand the impact of the food that they purchase

We believe that making these a reality will provide a means for future generations to farm, and offer an opportunity for farm communities to thrive and grow.

To learn more about Indigo and how we’re working to help growers to become more profitable, visit IndigoAg.com
### 2019 Wheat Products

#### Bentley

<table>
<thead>
<tr>
<th>Trait</th>
<th>Average</th>
<th>Above average</th>
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<tbody>
<tr>
<td>Grain-only yield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual-purpose yield</td>
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<tr>
<td>Forage yield</td>
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<tr>
<td>Test weight</td>
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</tr>
<tr>
<td>Disease</td>
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<td></td>
</tr>
<tr>
<td>Leaf rust</td>
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<tr>
<td>Stripe rust</td>
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</tr>
<tr>
<td>Powdery mildew</td>
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</tr>
<tr>
<td>SB/SS complex</td>
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<tr>
<td>Hessian fly</td>
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<tr>
<td>Other Traits</td>
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<td>Standability</td>
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<tr>
<td>Acid soils</td>
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<td>Kernal size</td>
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</tr>
<tr>
<td>Milling and baking quality</td>
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#### Smith's Gold

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<tr>
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#### Spirit Rider

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<tr>
<td>Milling and baking quality</td>
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</tbody>
</table>

### MARK YOUR CALENDARS!

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Kauffman Seeds, Inc.
### Lonerider

- **Yield**
  - Grain-only yield
  - Dual-purpose yield
  - Forage yield
  - Test weight

- **Disease**
  - Leaf rust
  - Stripe rust
  - powdery mildew
  - SB/SS complex
  - Hessian fly

- **Other Traits**
  - Shattering tolerance
  - Standability
  - Acid soils
  - Kernal size
  - Milling and baking quality

  - Average
  - Above average

### Doublestop CL+

- **Yield**
  - Grain-only yield
  - Dual-purpose yield
  - Forage yield
  - Test weight

- **Disease**
  - Leaf rust
  - Stripe rust
  - powdery mildew
  - SB/SS complex
  - Hessian fly

- **Other Traits**
  - Shattering tolerance
  - Standability
  - Acid soils
  - Kernal size
  - Milling and baking quality

  - Average
  - Above average

### Gallagher

- **Yield**
  - Grain-only yield
  - Dual-purpose yield
  - Forage yield
  - Test weight

- **Disease**
  - Leaf rust
  - Stripe rust
  - powdery mildew
  - SB/SS complex
  - Hessian fly

- **Other Traits**
  - Shattering tolerance
  - Standability
  - Acid soils
  - Kernal size
  - Milling and baking quality

  - Average
  - Above average

---

**THURSDAY, MAY 16, 2019**

**KAUFFMAN SEEDS**

**2019 WHEAT FIELD DAY**
2019 Wheat Products

Larry

• Top performing variety under intensive management
• Strong resistance to stripe rust
• Excels in environments of Central through Southern Kansas and into Oklahoma

Characteristics

<table>
<thead>
<tr>
<th>Trait</th>
<th>Medium Tall</th>
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Pest and Disease Profile

Leaf Rust
Yellow (Stripe) Rust
Hessian Fly
Wheat Streak Mosaic Virus
Soilborne Mosaic Virus
Barley Yellow Dwarf
Fusarium Head Blight

Rating Scale*:
Excellent (1-2), Very Good (3-4), Good (5-6), Fair (7-8), Poor (9)

*Results tested by Kansas State Research and Extension

Zenda

• Evolved from the top performing Everest variety
• Good stripe rust resistance with improved grain quality
• Excels in environments of Central and Eastern Kansas

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# Everest
The “Go To” Variety for Kansas

- #1 variety planted in Kansas
- Consistent performance
- Among highest rated tolerance to scab
- Most resistant to barley yellow dwarf

For more information please call 785.320.4080 or visit our website at www.kswheatalliance.org

## Characteristics

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Rating Scale*: Excellent (1-2), Very Good (3-4), Good (5-6), Fair (7-8), Poor (9)

*Results tested by Kansas State Research and Extension

As stewards of the land, we’re challenged every year to produce more from the acres we manage. Developed by K-State researchers to best meet the needs of Great Plains farmers, the Kansas Wheat Alliance is proud to introduce this season’s genetically superior varieties.

For more information please call 785.320.4080 or visit our website at www.kswheatalliance.org
AgriPro® Brand Hard Red

SY Benefit
New for 2018
Stripe Rust and Scab Tolerance
- Fusarium head blight tolerance similar to Everest
- Better stripe rust resistance than Everest
- Good mill and bake quality
- Medium maturity, short height, and aluminum tolerance

SY Grit
Straw Strength and Drought Tolerance
- The best straw strength in our lineup
- Good drought tolerance
- Medium early maturity
- Good disease package
- Maintains height in drought conditions, stands well in good conditions

Bob Dole
New for 2018
Leaf Health and High End-Use quality
- Good disease package—leaf rust, stripe rust, fusarium head blight
- Consistent performance over years
- Excellent end-use quality
- Taller, medium maturating variety

SY Achieve CL²
New for 2018
New Two-Gene with Early Maturity
- Two-gene CL variety with very high yield
- Excellent grazing potential
- Earlier maturity than other two-gene varieties
- Good stripe and leaf rust tolerance
- Good quality and good test weights

Maps indicate the primary areas of adaptation.
Winter Wheat Varieties

**SY Monument**

Disease and Drought Tolerance
- Widely adapted with good disease and drought tolerance across the Plains areas
- Tolerance to acid soils and soil-borne mosaic virus
- Good winter hardiness
- Resistance to leaf and stripe rust
- The top yielder in trials planted after soybeans

**SY Rugged**

The Dryland Performer
- High yields across environments
- Very good test weights
- Good rust tolerance—leaf and stripe
- Good drought tolerance

Protect your crop with leading seed treatments from Syngenta

AgriPro® brand varieties are developed by North America’s largest breeding program to deliver the agronomic traits you need for superior performance. Available as certified seed grown and distributed locally. For more information visit www.AgriProWheat.com.
HARD RED WINTER WHEAT

LCS Chrome
Bred for the Long Haul

PROVEN
top-end yield potential over multiple years

HIGHEST
protein content over a 3-year average

Broadly adapted with
EXCELLENT straw strength

HARD RED WINTER WHEAT

LCS Mint
Almost as Good as a License to Print Money!

BEST
drought tolerance in the LCS lineup

VERY HIGH
test weight

DESIRABLE
end-use quality

HARD RED WINTER WHEAT

LCS Fusion AX
Advanced Genetics + Innovative Weed Control = Pure Profits

1ST COAXIUM™
variety available in the Central Plains

NO BETTER
OPTION
for controlling grassy weeds

Two-gene RESISTANCE to Aggressor™ herbicides

Only the best on your acres
Maximize your returns with LCS varieties
One of the TOP-PLANTED varieties in Kansas

**Moderate TOLERANCE** to WSMV

**EXCELLENT** drought tolerance

**VERY GOOD** western irrigated performance

**EXCELLENT** tolerance to stripe, stem, and leaf rust

**Exceptional** STRAW STRENGTH

**SUPERIOR** leaf-to-stem ratio

**VERY GOOD** forage and grain yield

**EXCELLENT** disease tolerance

Contact Information

**LCS-info@limagrain.com**

**970.498.2200**

**LimagrainCerealSeeds.com**