TO OUR VALUED CUSTOMERS...

Thank you for your business this past year. We certainly appreciate the confidence you have placed in our company and our products to meet your seed needs. We strive to improve our product line every year in order to offer you more profit potential for your farm.

• For 2019 our corn and soybean product lines have excellent conventional and traited products to meet your needs. We also have first rate alfalfa and small grain seed.

• This year we have increased our offering of Silage corns for livestock producers.

• Terning Seeds has been a proud, family-owned company for more than 42 years. Unlike many companies, we grow and process our own corn and soybean products to maintain quality at every stage of the production cycle.

Throughout our 2019 catalog we’re giving you an up-close look at our production process.

• Like every year, 2019 will offer its own unique set of challenges, but we’re here to provide seed products that will help you be successful.

Sincerely,
Dennis Terning
SEED PRODUCTION OVERVIEW

Production seed is planted only under conditions ideal for quick germination and strong early growth.

We grow seed on high-quality, irrigated land to give our products the best potential for top results. Seed fields are irrigated as needed to ensure plants are not being moisture stressed.

Terning’s production, processing, conditioning, bagging and storage processes operate under strict specifications with one goal in mind: To provide the highest quality seed products for your farm.

We start by selecting parent seed from leading suppliers of corn and soybean genetics. We strive to keep our pipeline full of the latest traits and technologies that offer you the greatest potential for success.

Mechanical detasseling and individual row inspection by field workers ensures that genetic seed purity is maintained during the growing season.
# Corn Trait Cross-Reference

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## COMMON REFUGE:
A common refuge is a single field that serves as a refuge for both above-ground pests (e.g. corn borer) and below-ground pests (e.g. corn rootworm) at the same time. The refuge can be within the B.t. field or immediately adjacent to it.

## SEPARATE REFUGE:
A separate refuge is an option that requires two fields—one field which is adjacent to or within your B.t. field that serves as a refuge for below ground pests (e.g. corn rootworm) and a separate field (up to 1/2 mile away) that serves as a refuge for above-ground pests (e.g. corn borer). Several options/configurations not shown.

*Provided as a summary only. Growers must read the IRM/Grower Guide prior to planting.*
## Corn Products for 2019

<table>
<thead>
<tr>
<th>Corn Product</th>
<th>Days to Maturity</th>
<th>Yield Range</th>
<th>Relative Maturity</th>
<th>GDU's to Mid Pollination</th>
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### TS 7900
- Well suited for northern corn production
- Performs in highly, and lower, productive environments
- Excellent plant health and standability

### TS 7951
- Extra bonus yield for maturity
- Outstanding late season stay green
- Early black layer

### TS 8000
- Excellent seedling vigor
- Performs well in variable soil types
- High test weight and girthy ears (16-18 kernel rows)

### TS 8025
- Medium tall
- Flex ears - high yield
- Good grain quality
- Excellent stalk and plant

### TS 8146
- Very high yields
- Large flex ear
- Husks open for fast dry
- Excellent seedling vigor
- Medium tall plant
- Very good for Goss' Wilt
- Artesian stress tolerance
- Very good stalks, roots

### TS 8150A
- Medium tall
- Very good seedling vigor
- Semi-flex ear
- Very good for Goss' Wilt
- Artesian stress tolerance
- Very good stalks, roots

*Note! TS 7900 needs 20% refuge*
**CORN PRODUCTS**

### TS 8192

**89 Day Corn**

- Tremendous yields
- Semi-flex ear
- Fast drydown
- Excellent roots
- Excellent seedling vigor

Relative Maturity 89
GDU’s to Mid Pollination 1240
GDU’s to Black Layer 2310

#### Conventional

### TS 8190A

**90 Day Corn**

- Moves south well as an early hybrid
- Excellent emergence in cold soils, including no till
- Open husk dries down well

28,000 – 34,000 PPA

Relative Maturity 90
GDU’s to Mid Pollination 1210
GDU’s to Black Layer 2360

#### Conventional

#### NEW

### TS 8199

**91 Day Corn**

- Top yields
- Medium tall plant
- Good drought tolerance
- Very good ear flex

Relative Maturity 91
GDU’s to Mid Pollination 1240
GDU’s to Black Layer 2310

#### Conventional

### TS 8200

**92 Day Corn**

- Tall hybrid
- Good grain quality
- Excellent grain or silage
- Large flex ears

Relative Maturity 92
GDU’s to Mid Pollination 1260
GDU’s to Black Layer 2340

#### Conventional

### TS 8225A

**93 Day Corn**

- Medium tall
- Very good seedling vigor
- Artesian stress tolerance
- Very good stalks and roots
- Fixed ear

Relative Maturity 93
GDU’s to Mid Pollination 1368
GDU’s to Black Layer 2232

#### Conventional

#### NEW

### TS 8226

**94 Day Corn**

- High performance in many environments
- Outstanding Goss’ Wilt and GLS tolerance
- Impressive stalk strength
- Long flex ears, high kernel rows

Relative Maturity 94
GDU’s to Mid Pollination 1230
GDU’s to Black Layer 2490

#### Conventional
### TS 8245
**94 Day Corn**
- Racehorse hybrid
- Excellent stalk strength
- Excellent seedling vigor
- Very good corn-on-corn
- Moderate ear flex
- Relative Maturity: 94
- GDU’s to Mid Pollination: 1229
- GDU’s to Black Layer: 2320
- PPA: 28,000 – 34,000

### TS 8249
**95 Day Corn**
- High yielding
- Shorter plant
- Good test weight
- Very good stalk and roots
- Relative Maturity: 95
- GDU’s to Mid Pollination: 1245
- GDU’s to Black Layer: 2465
- PPA: 28,000 – 34,000

### TS 8296
**96 Day Corn**
- Exceptionally versatile in a wide range of environments
- Moves south as well as north of traditional mid 90 maturity zone
- Exceptional yield, competing with later maturing hybrids
- Very good test weight and fast drydown
- Relative Maturity: 96
- GDU’s to Mid Pollination: 1210
- GDU’s to Black Layer: 2360
- PPA: 30,000 – 36,000

### TS 8280
**97 Day Corn**
- Showy hybrid w/ blocky, semi-flex ears
- Excellent yields in light soils
- Very strong stalks and roots
- Widely adapted
- Medium-tall plant
- Relative Maturity: 97
- GDU’s to Mid Pollination: 1316
- GDU’s to Black Layer: 2311
- PPA: 28,000 – 34,000

### TS 8300
**99 Day Corn**
- Shorter plant, excellent intactness
- Very good lodging resistance
- Excellent drydown
- Very good seedling vigor
- Moderately fixed ear type
- Relative Maturity: 99
- GDU’s to Mid Pollination: 1200
- GDU’s to Black Layer: 2320
- PPA: 28,000 – 34,000

### TS 8302
**100 Day Corn**
- Very strong agronomics
- Semi-determinate ear
- Medium size plant
- High population for top yields
- Very good late season quality
- Relative Maturity: 100
- GDU’s to Mid Pollination: 1225
- GDU’s to Black Layer: 2389
- PPA: 30,000 – 36,000
## CORN PRODUCTS

### TS 8303

**101 Day Corn**

- Good ear flex
- Excellent yield
- Medium tall

**Conventional**

Relative Maturity: 101
GDU's to Mid Pollination: 1240
GDU's to Black Layer: 2510

### TS 8307A

**101 Day Corn**

- Excellent grain or silage hybrid
- Semi-flex ear type

**Conventional**

- **Agrisure Artesian GTA**

Relative Maturity: 101
GDU's to Mid Pollination: 1200
GDU's to Black Layer: 2402

### TS 8339

**104 Day Corn**

- Top rating for silage
- Excellent stalks and roots
- Flex ear

**Conventional**

- **Agrisure Viptera Liberty Link**

Relative Maturity: 104
GDU's to Mid Pollination: 1222
GDU's to Black Layer: 2445

### TS 8340

**104 Day Corn**

- Medium tall hybrid
- Good late season health
- Good flex ear

**Conventional**

Relative Maturity: 104
GDU's to Mid Pollination: 1270
GDU's to Black Layer: 2600

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**CruiserMaxx® Corn 250 Seed Treatment**

For a high level of early-season insect and disease protection

**CruiserMaxx Corn® 250** insecticide/fungicide seed treatment, a combination of separately registered products, offers broad-spectrum protection against early-season insects and seedborne and soilborne disease. Protection from: wireworm, seedcorn maggot, white grub, grape colaspis, corn flea beetle, southern corn leaf beetle, black cutworm and chinch bug. CruiserMaxx Corn 250 is an on-seed application of Cruiser 5FS insecticide delivered at the 0.25 mg a.i./seed rate and Maxim Quattro fungicide.

**Vibrance®** seed treatment fungicide delivers enhanced disease protection that leads to stronger root systems and improved crop performance. Through its SDHI mode of action, Vibrance provides best-in-class activity against threatening diseases like Rhizoctonia across a variety of crops while ensuring yield consistency under a broad range of conditions.

**Thiabenazolate** adds a fourth mode of action to the current Syngenta Seedcare corn fungicide portfolio. Thiabenazolate reduces infection of a lesser-known, but damaging Fusarium species - Fusarium verticillioides. With the added protection, roots remain unharmed and develop into vigorous, healthy plants. Thiabenazolate complements the Fusarium protection already offered by the active ingredient fludioxonil (Maxim XL), which promotes plant health from the very beginning by delivering proven protection against Fusarium spp., including Fusarium graminearum, one of the most common types of Fusarium.
## Corn Silage Products for 2019

### TS 8196
- **90 Day Corn**
- **Conventional**
- **Relative Maturity**: 90
- **GDU’s to Mid Pollination**: 1200
- **GDU’s to Black Layer**: 2280
- **Yield Highlights**: Very high yields, tall, girthy flex ears.
- **Maturity Details**: 28,000 – 34,000 PPA

### TS 8198
- **90 Day Corn**
- **NEW**
- **Conventional**
- **Relative Maturity**: 90
- **GDU’s to Mid Pollination**: 1128
- **GDU’s to Black Layer**: 2180
- **Yield Highlights**: Outstanding yield, open husk for fast drydown, essential tool for corn rootworm management.
- **Maturity Details**: 28,000 – 34,000 PPA

### TS 8200
- **92 Day Corn**
- **Conventional**
- **Relative Maturity**: 92
- **GDU’s to Mid Pollination**: 1260
- **GDU’s to Black Layer**: 2340
- **Yield Highlights**: Tall hybrid, good grain quality, large flex ears.
- **Maturity Details**: 28,000 – 34,000 PPA

### TS 8303
- **101 Day Corn**
- **Conventional**
- **Relative Maturity**: 101
- **GDU’s to Mid Pollination**: 1240
- **GDU’s to Black Layer**: 2510
- **Yield Highlights**: Good ear flex, excellent yield, medium tall.
- **Maturity Details**: 28,000 – 34,000 PPA

### TS 8307A
- **101 Day Corn**
- **Conventional**
- **Relative Maturity**: 101
- **GDU’s to Mid Pollination**: 1200
- **GDU’s to Black Layer**: 2402
- **Yield Highlights**: Excellent grain or silage hybrid, semi-flex ear type.
- **Modes of Control**: Stacked with 2-proven modes of corn rootworm control.
- **Maturity Details**: 28,000 – 34,000 PPA

### TS 8339
- **104 Day Corn**
- **Conventional**
- **Relative Maturity**: 104
- **GDU’s to Mid Pollination**: 1222
- **GDU’s to Black Layer**: 2445
- **Yield Highlights**: Top rating for silage, white cob corn, excellent stalks and roots, medium-tall plant.
- **Maturity Details**: 28,000 – 34,000 PPA
**TERNING SEED CORN PROCESSING**

Our seed corn is harvested at about 30% moisture to prevent field shelling and minimize damage by harvesting equipment. Terning owns, maintains and operates its own harvesting equipment.

After husking all seed corn is visually inspected so questionable ears and off-types can be removed by hand.

Sizing and handling equipment at Terning's production plant handles seed slowly and gently to eliminate cracking from high speeds and long drops. Our vibrating conveyors and lifts have poly cups to assure gentle handling. Flat sieves operate slowly to clean and size seed that goes into our product line-up.

Terning has always invested to continually improve our seed production facilities. Our plant includes a gentle bulk ear unloading platform, a belt conveyor that delivers ears to the husking beds, a state-of-the-art dryer and a climate controlled warehouse.

Terning's seed corn dryer uses automatic reverse-flow air movement to eliminate hot spots that could damage seed germination.

Seed conditioning at the Terning plant uses conventional grading and sorting on gravity tables. We also use an infrared color sorter that removes 1-3% additional seed that could have germination issues caused by microscopic cracks or slight discoloring. Customers benefit from better quality seed with higher germination — it leads to more healthy plants producing ears.

Terning's company test plots evaluate current and prospective corn and soybean products under actual field conditions. During the growing season we make field observations for plant health, standability, root and stalk development and drydown. We harvest, weigh, moisture and test-weight-check all products for first-hand product knowledge.
## Soybean Reference

### New varieties for 2019 in **bold**

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<th>Emergence</th>
<th>Standability</th>
<th>Plant Type</th>
<th>Pubescence</th>
<th>Pod Color</th>
<th>Iron (DC) Chlorosis</th>
<th>Cyst (SCN) Tolerance</th>
<th>Phytophthora Tolerance</th>
<th>White Mold</th>
<th>Brown Stem Rot</th>
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<td>1.8</td>
<td>Int. Bush</td>
<td>Tawny</td>
<td>Brown</td>
<td>2.3</td>
<td>NA</td>
<td>Rps-1c</td>
<td>NA</td>
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<td><strong>Roundup Ready 2 Xtend® Soybeans</strong></td>
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<tr>
<td>TS3180 NRR2X</td>
<td>1.8</td>
<td>M</td>
<td>1.7</td>
<td>1.5</td>
<td>Med. Bush</td>
<td>Gray</td>
<td>Brown</td>
<td>2.3</td>
<td>R3, MR14</td>
<td>Rps-3a, 1c</td>
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<tr>
<td>TS3210 NRR2X</td>
<td>2.1</td>
<td>MT</td>
<td>1.7</td>
<td>2.1</td>
<td>Med. Bush</td>
<td>Lt. Tawny</td>
<td>Brown</td>
<td>2.0</td>
<td>PI 88 788</td>
<td>Rps-1c, 2.1 tol</td>
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<td>MR 1.5</td>
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<td><strong>Glyphosate Tolerant Soybeans</strong></td>
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<tr>
<td>TS5083GT</td>
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<td>1.9</td>
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<td>Lt. Tawny</td>
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<td>3.2</td>
<td>NA</td>
<td>Rps-1k</td>
<td>1.7</td>
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<td><strong>Conventional Soybeans</strong></td>
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<tr>
<td>Sheyenne</td>
<td>0.8</td>
<td>M</td>
<td>1.7</td>
<td>1.7</td>
<td>Bush</td>
<td>Gray</td>
<td>Tan</td>
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<td>Race 3</td>
<td>Rps-1k</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</tbody>
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*Rating Scale: 1-5: 1=excellent 5=poor  M=medium  MT=medium tall  T=tall*

*All ratings represent comparisons only with other Terning varieties*

### Liberty Link Soybeans  PSI Professional™ Seedsmen, Inc.

<table>
<thead>
<tr>
<th>Variety and Brand</th>
<th>Relative Maturity</th>
<th>Height</th>
<th>Emergence</th>
<th>Standability</th>
<th>Plant Type</th>
<th>Pubescence</th>
<th>Pod Color</th>
<th>Iron (DC) Chlorosis</th>
<th>Cyst (SCN) Tolerance</th>
<th>Phytophthora Tolerance</th>
<th>White Mold</th>
<th>Brown Stem Rot</th>
<th>Seeds/ Pound</th>
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<tbody>
<tr>
<td>PSI0823 NLL</td>
<td>0.8</td>
<td>M</td>
<td>10</td>
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<td>Tan</td>
<td>8</td>
<td>MR</td>
<td>Rps1K/FT 8.0</td>
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<td>Lt. Tawny</td>
<td>Tan</td>
<td>8</td>
<td>MR</td>
<td>Rps1c/FT 9.0</td>
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<td>NA</td>
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<td>PSI1523 NLL</td>
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<td>Med. Bush</td>
<td>Lt. Tawny</td>
<td>Tan</td>
<td>8.5</td>
<td>R</td>
<td>NG,FT9</td>
<td>9</td>
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<tr>
<td>PSI1723 NLL</td>
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<td>Lt. Tawny</td>
<td>Tan</td>
<td>8.5</td>
<td>HR</td>
<td>NG,FT0</td>
<td>8.5</td>
<td>NA</td>
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<td>MR</td>
<td>Rps1K/FT 8.0</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

*Rating Scale: 1-10: 1=poor 10=excellent  M=medium  MT=medium tall  T=tall*

*All ratings represent comparisons only with other Terning varieties*

---

Approval Pending for 2019!
- Two NEW trait packages for soybeans
- Eight NEW cultivars
Genuity® Roundup Ready 2 Yield® Soybeans

**TS 4085**
**NRR2Y Brand**
**0.8 R.M.**
- All around performance
- Excellent SCN and IDC tolerance
- Excellent standability

**TS 4090**
**NRR2Y Brand**
**0.9 R.M.**
- Medium size plant
- Top yields in its maturity
- Wide adaptation for top performance
- Excellent emergence

**TS 4111**
**NRR2Y Brand**
**1.1 R.M.**
- Outstanding IDC score
- Wide range for top performance
- Rag 1 for aphid tolerance

**TS 4144**
**NRR2Y Brand**
**1.4 R.M.**
- Consistently high yields in multiple environments
- Mid Group 1 with dominant yields
- SCN protection against both race 3 & 14
- Excellent IDC tolerance
- Excellent on your best soils

Terning treats bulk and bagged soybeans in a high capacity setup inside its climate-controlled warehouse.
SOYBEANS

TS 4166 NRR2Y Brand

- Intermediate bush plant
- Excellent emergence
- Good cyst and IDC score
- Excellent standability

TS 4171 NRR2Y Brand

- Medium bush plant, medium tall plant
- Very good standability
- Top yields
- Top for IDC, SDS and SWM

TS 4200 NRR2Y Brand

- Medium tall plant
- Top yields
- Excellent standability
- Super versatile SCN bean

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*
- Leading seed treatment options

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

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

Genuity® Roundup Ready 2 Yield® Soybeans Offer Proven Yield Advantage Over the Competition.

Key Features:
- The industry standard for soybean trait performance
- Outperforms original Roundup Ready® soybeans by >4 Bu/A
- >3 Bu/A advantage over LibertyLink®*

More Beans per Pod, More Roots, More Nodes. Genuity® Roundup Ready 2 Yield® Soybeans have developed more 3-, 4- and 5-bean pods per plant than the competition. The yield is built right in. Studies also show that Roundup Ready 2 Yield® Soybeans have developed greater root biomass, more nodes on the mainstem and larger shoot biomass than original Roundup Ready® soybean products.

Genuity® Roundup Ready 2 Yield® Soybeans

*Pending regulatory approvals. First 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.
**Roundup Ready 2 Xtend® Soybeans**

**TS 3180 NRR2X Brand**
- 1.8 R.M.
- Very tolerant for SWM
- Brown stem rot resistance
- Excellent yield

**TS 3210 NRR2X Brand**
- 2.1 R.M.
- Great IDC tolerance
- Resistant to brown stem rot
- Top yields

**Roundup Ready2 Xtend® Soybean Key Features:**
- Tolerance to dicamba as well as glyphosate
- Built on Roundup Ready 2 Yield soybean technology

Additional Herbicide Tolerance:
Part of the Roundup Ready® Xtend Crop System, Roundup Ready 2 Xtend® soybeans give you the opportunity to incorporate approved dicamba formulations into your soybean weed management program. This additional herbicide tolerance offers improved control over resistant and other tough-to-control weeds.
**SOYBEANS**

### Glyphosate Tolerant Soybeans

**TS 5083GT Brand**

- Bushy bean plant that yields
- Excellent standability
- Better soil and better yields
- Medium height plant

### Conventional Soybeans

**Sheyenne**

- Moderate resistant to IDC
- High yielding
- Yellow hilum for food grade
- Great standability

---

**CruiserMaxx® Vibrance® Beans**

**Advantages of CruiserMaxx® Vibrance® Beans**

- Offers broad-spectrum protection against early-season insects and seedborne and soilborne disease.
- Protection from: wireworm, seedcorn maggot, white grub, grape colaspis, corn flea beetle, southern corn leaf beetle, black cutworm and chinch bug.
- Protects against damaging, chewing and sucking insect pests, such as leafhopper, early-season soybean aphid, bean leaf beetle.
- Provides effective protection against major fungal diseases, such as Rhizoctonia, early-season Phytophthora, Pythium, Fusarium.

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**Stronger Stands, Better Vigor, Quicker Canopy and Higher Yield Potential**

CruiserMaxx® Vibrance® Beans protects soybeans against a broad spectrum of harmful seed- and foliar-feeding insects, and all major seedborne and soilborne fungal disease pathogens.

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Refer to seed price sheet - 50 unit minimum
Must order before March 15, 2019 - Absolutely no returns
**PSI 0823 NLL Brand**
- 0.8 R.M.
- Shorter and bushy plant
- Pods well
- Excellent SWM, IDC and PRR protection
- Moves South well within late Group 0 to early Group 1s

**PSI 1223 NLL Brand**
- 1.2 R.M.
- Fast emergence
- Nice defensive package with great yield potential
- Consistently showing 105% yield advantage over current 1.3 Liberty varieties

**PSI 1523 NLL Brand**
- 1.5 R.M.
- Has shown a 105% yield advantage over current group 2 Liberty varieties
- Performs very well from Eastern South Dakota across Minnesota
- Tough competition for RR2Y

**PSI 1723 NLL Brand**
- 1.7 R.M.
- Excellent IDC and SWM scores
- Attractive plant with medium structure
- Great performance in several years’ testing

**PSI 1923 NLL Brand**
- 1.9 R.M.
- Strong yield potential with good defensive traits protects yield
- Outstanding BSR tolerance
- Attractive plant with medium to tall structure

**NEW**
**Liquid Seed Treatments**

**MAXIMIZE 400 AND 100 UNIT**
- 2 Strains of Bradyrhizobium
- Proprietary Stabilization Formulation
- No Sticky Extender
- 120 Days on Seed / 2 yr shelf life
- 1 ounce per unit

**NEW TECH SI 400 UNIT**
- Maximize inoculant with Azospirillum bacteria for root enhancement and nodulation encouragement.

**Dry Seed Treatments**

**TERRAMAX DRY 10 AND 40 UNIT**
- Humate Based
- Superior Seed Adherence Planter box application / 2 ounce per unit
- Easy to use

**Azospirillum Products**

**MicroAZ-IF**
- Corn inoculant
- Compatible w/ most starters
- Easy to use
- 12.8 ounce/acre
- Also available in dry formulation

**MicroAZ-ST**
- Small grains inoculant
- Contains 2 strains of Azospirillum
- Fixes Nirtrogen
- Enhances root growth
- Available in liquid & dry seed treatment

**In-Furrow Treatments**

**TERRAMAX LIQUID-IF**
- 2 Strains of Bradyrhizobium
- Compatible with most starters
- Easy to use
- 12.8 ounces per acre
- Proprietary stabilization formulation

**NEW TECH SI-IF**
- TerraMax Liquid-IF + Azospirillum

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Approval Pending for 2019!

- **2 NEW** trait packages for soybeans
- **8 NEW** varieties
### AFX 469
**For Aggressive Managers**

<table>
<thead>
<tr>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>- For growers who aggressively managed their established alfalfa acres to maximize milk per acre</td>
</tr>
<tr>
<td>- An 11% yield advantage versus PGI 557</td>
</tr>
<tr>
<td>- FastGrowth ability shaves 3 to 5 days off the time between harvests to maximize seasonal yield</td>
</tr>
<tr>
<td>- Carries a strong, multiple-pest package to protect fast-growing plants and aggressively-managed acres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Fast-growing variety for production areas that use fall dormancy 4 and 5 alfalfas, and when four or more cuts are expected each season</td>
</tr>
<tr>
<td>- Average seeding year yield performance when spring direct seeded</td>
</tr>
<tr>
<td>- Very early harvest maturity; reaches late bud or early flower 3 to 5 days ahead of most dormant alfalfas</td>
</tr>
<tr>
<td>- Very fast green-up after harvest and accelerated growth to harvest maturity</td>
</tr>
</tbody>
</table>

**Appearance at Harvest Maturity**
- Tall and showy, with large leaves

### Re-New ML
**Branch Root Alfalfa**

**Product Description**
RE-NEW ML was selected for having a strong branch root characteristic. RE-NEW ML is a multifoliate and offers a good quality hay. This variety will work in all soils and has a strong disease package. RE-NEW ML branch roots help keep the root system above the water level in wet areas. Well suited to less than ideal soil and field conditions.

### 405 Brand
**The same product as TSB 100 Blend**

**Product Description**
This brand alfalfa is a proven, high quality alfalfa that dairy producers desire. Its disease resistance rating of 29/30 allows producers to plant their alfalfa crop under a variety of conditions and soil types. This blend produces persistence, quality forage and winter hardiness. 405 Brand is a long rotation alfalfa with several years of proven performance.
### Oat Varieties

**Deon:**
- High yielding with good test weight
- Highest U of MN 3-year average yield
- Late maturity, medium-tall height
- Good standing
- Good resistance to Crown rust and smut
- Medium-yellow seed

**Esker:**
- Medium early
- High yield
- Medium tall
- Yellow seed
- Good test weight
- BYDV tolerant and resistant to smut

### Hard Red Spring Wheat Varieties

**Shelly:**
- Very high yield
- High protein
- Similar maturity to Prosper
- Excellent resistance to stripe and stem rust

### Oat Varieties *Uncertified*

**Ogle:**
- High yield for grain or oatlage
- Medium maturity
- Medium tall
Ready soybeans, giving two different modes of action to control weeds in your fields. Seed products with the glufosinateammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, a company. HERCULEX® and the HERCULEX shield are registered trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences. LibertyLink®, Liberty® and the Water Droplet logo are registered trademark of Bayer. Herculex® is a registered trademark of Dow AgroSciences LLC. Respect the Refuge and Corn ... registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners. AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xfend® Soybeans. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. May not be approved in all states. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xfend® Soybeans.

Roundup Ready 2 Corn® contains in-plant tolerance to Roundup® brand herbicides, enabling growers to spray Roundup® brands over the top, from planting through the V8 stage or 30-inch corn height, with excellent crop safety and no yield reduction. Compared to popular conventional corn programs, the Roundup Ready® Corn system costs less, allowing hybrids to reach their maximum yield potential. While the U.S. regulatory agencies have given full approval to Roundup Ready® Corn 2 for commerce in the U.S. for marketing and consumption as food, food ingredients and feed for livestock, certain regulatory approvals are pending in certain export markets. For more information on these approvals, or for assistance in locating domestic grain outlets, see the American Seed Trade Association web site (www.amsea.org) or contact Monsanto directly at 800-768-6307. SmartStax® RIB Complete® Corn Blend has 9% hexanes or its own blend. That means no calculating or planting a separate structured refuge ever again. No more separate, structured refuge. Simple and convenient. Fonso row-to-row corn planting, plains to single-bag solution. 90% blend - plant the most verify acres. Broadest spectrum of above- and below-ground insect protection ontraveled acres.

Roundup Ready 2 Xtend® soybeans contain MON 87701 and MON 9768. Roundup Ready 2 Xfend® Soybeans have tolerance to glyphosate and dicamba herbicides when applied according to label directions. ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING. IT IS A VIOLATION OF FEDERAL AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xfend® Soybeans. Additional information and limitations on the use of these products are provided in the Monsanto Technology Stewardship Agreement, the Monsanto Technology Use Guide, and 2017 Roundup Ready 2 Xfend® Soybean Technology Use Supplement. U.S. patents for Monsanto technologies can be found at the following webpage: http://www.monsantotechnology.com

Crucial benefits:
- **Agrisure** GT: provides tolerance to in-crop applications of glufosinate-based herbicides, with a full range of assurances which do not limit a grower’s glyphosate brand selection.
- **Agrisure** Viptera®: provides high hexanes or its own blend. That means no calculating or planting a separate structured refuge ever again. No more separate, structured refuge. Simple and convenient. Fonso row-to-row corn planting, plains to single-bag solution. 90% blend - plant the most verify acres. Broadest spectrum of above- and below-ground insect protection ontraveled acres.
- **Staging** traits for control of corn rootworm. It offers a unique protein and multiple modes of action making it a key copnent in a corn rootworm management program.
- **Agrisure** GT/ViP: trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** VT: trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** IT/GT/Bi: trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** ViP: trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** GT/PL/RR: trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** VP: The Agrisure Viptera® 3110 trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** VP: The Agrisure Viptera® 3110 trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** VT/IT: The Agrisure Viptera® 3111 trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.
- **Agrisure** GT: The Agrisure GT trait stack provides quality of grain by controlling ear-feeding corn insects, reducing mycotoxin contamination by limiting ear-feeding insect damage. Ideal for areas where corn rootworm management is not a key focus.

SEEDS FOR YOUR SUCCESS

Contact us at:
800-483-7646 320-286-2168
www.terningseeds.com

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