LIMITED WARRANTY

SEEDWAY, LLC warrants for one year from the date of sale that the seeds and plants sold conform to the label description, as required by state and federal seed laws.

SEEDWAY, LLC MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, WHICH EXTEND BEYOND THE LABEL DESCRIPTION.

LIABILITY FOR DAMAGES FROM ANY CAUSE, INCLUDING BUT NOT LIMITED TO, BREACH OF WARRANTY OR NEGLIGENCE, WITH RESPECT TO SUCH SEEDS OR PLANTS IS LIMITED TO A REFUND OF THE PURCHASE PRICE.

THIS REMEDY IS EXCLUSIVE. SHOULD PURCHASER WISH TO OBTAIN DIFFERENT RIGHTS THAN SET FORTH HEREIN, IT MAY NEGOTIATE WITH SEEDWAY TO OBTAIN SUCH ADDITIONAL RIGHTS AT AN INCREASE IN THE PURCHASE PRICE OF THE SEEDS OR PLANTS. IN NO EVENT SHALL SEEDWAY, LLC BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS.

ANY CONTROVERSY OR CLAIM ARISING OUT OF THIS SALE SHALL BE SETTLED BY ARBITRATION, IN SYRACUSE, NEW YORK. IN ACCORDANCE WITH THE RULES OF THE AMERICAN ARBITRATION ASSOCIATION, AND THE DECISION OF THE ARBITRATORS SHALL BE FINAL AND BINDING UPON BOTH PARTIES, AND ANY JUDGEMENT UPON ANY AWARD RENDERED MAY BE ENTERED IN ANY COURT HAVING COMPETENT JURISDICTION. ANY ARBITRATION PROCEEDING OR OTHER CLAIM MUST BE BROUGHT IN CONNECTION WITH THIS TRANSACTION WITHIN ONE (1) YEAR AFTER THE GOODS ARE SOLD.

THIS AGREEMENT SHALL BE INTERPRETED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK. THESE TERMS SHALL NOT BE MODIFIED OR AMENDED EXCEPT IN WRITING, SIGNED BY BOTH PARTIES, UPON THIRTY (30) DAYS NOTICE BY REGULAR MAIL.

By acceptance of the seeds or plants, purchaser acknowledges the terms of this limited warranty and limitation on damages and remedy. The terms of this limited warranty constitute the entire agreement between the parties regarding the sale of seeds or plants.

SEEDWAY MESSAGE TO CUSTOMERS 1-800-836-3710

First & foremost, Thank You for your continued business.
We highly value your trust in our products & service!

The focus of our longterm comprehensive product development & evaluation program is to bring the best products to the NORTHEAST & MID-ATLANTIC with the most regional information. Whether its grain or silage, full trait, specific trait, conventional, organic, or NON GMO - chances are we have a product and supporting information to meet the needs of each acre you grow. In today's tight farm economy the key to success is choosing the right management tools. Every acre counts. And each seed selection is an important decision. When you are up against regional soil productivity differences, elevation changes, changing tillage / herbicide systems, and necessary management choices; not every product fits every acre. Add to that differing end uses. Grain, silage, specialty - choosing seed carefully can pay significant year end dividends. SEEDWAY recommends corn growers consult the following detailed product presentation to select products based on end use. We have developed independent grain & silage product guides to simplify the process of optimizing your value per acre. Please consult SEEDWAY District Sales Managers or a SEEDWAY office for additional product assistance. We plan for every SEEDWAY acre to be the best it can be.

SILAGE TECHNOLOGY & TRENDS - STARCH

Recently starch has received close scrutiny in corn silage. The trend to higher inclusion rates of corn silage in dairy rations no doubt a large factor. The intuitive reaction to this has been to select silages & hybrids on percentage of grain as a single valuation. This poses the critical question - does starch percentage reliably predict net energy to a cow?

Net energy in corn silage is additive, coming from both fiber and grain components. Each component differs in nutrient energy content as well as digestibility. It is unlikely that a single selection criteria based on simple grain/fiber ratio would repeatedly predict future cow performance. The intuitive value of using a simple grain percentage may initially make sense, but can be questionable when all facts are considered. Until we have better prediction technology, additional factors need consideration.

Be aware - grain is not all starch. Within the grain component, starch percentage varies. This variation is influenced by genetics to some degree, with growing conditions, management, timing of harvest, and storage also influencing how a cow can use the grain/starch component.

Cows also value starch according to length of silage storage. This is independent of percentage starch. Present technology simply does not have a single value
# CORN HYBRID TRAITS

<table>
<thead>
<tr>
<th>SEEDWAY BRAND</th>
<th>Trait Name</th>
<th>Trait</th>
<th>Insect Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONVENTIONAL</td>
<td>None</td>
<td>Non GMO (no trait insertion) or Organic Prod. System</td>
<td>Variable / depending on native resistance of base genetics</td>
</tr>
<tr>
<td>RR2</td>
<td>Roundup Ready® Corn 2</td>
<td></td>
<td>Variable / depending on native resistance of base genetics</td>
</tr>
<tr>
<td>GENVT2P (RIB)</td>
<td>VT Double PRO® RIB Complete® Corn</td>
<td></td>
<td>Dual modes of action for above-ground insects and maximum protection against corn earworm, RIB (Refuge in the Bag).</td>
</tr>
<tr>
<td>GENVT3P (RIB)</td>
<td>Genuity® VT Triple PRO® RIB Complete® Corn</td>
<td></td>
<td>Dual modes of action for above-ground insect protection with below-ground insect protection and Roundup® Ready Corn 2 Technology, RIB (Refuge in the Bag).</td>
</tr>
<tr>
<td>GENSS (RIB)</td>
<td>SmartStax® RIB Complete® Corn</td>
<td></td>
<td>Eight modes of insect and herbicide control. Roundup® Ready Corn 2 Technology, LibertyLink®, RIB (Refuge in the Bag).</td>
</tr>
<tr>
<td>GT</td>
<td>Agrisure® GT</td>
<td></td>
<td>Glyphosate tolerant.</td>
</tr>
<tr>
<td>GTCBLL</td>
<td>Agrisure® GT/CB/LL</td>
<td></td>
<td>Glyphosate tolerant, Corn Borer control, Glufosinate tolerant.</td>
</tr>
<tr>
<td>3000GT</td>
<td>Agrisure® 3000GT</td>
<td></td>
<td>Corn Borer Control, Corn Rootworm Control, Glyphosate tolerant, Glufosinate tolerant.</td>
</tr>
<tr>
<td>VIP</td>
<td>Agrisure Viptera® 3111</td>
<td></td>
<td>Above- and below-ground insect control for higher quality grain, increased yield potential.</td>
</tr>
</tbody>
</table>

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that reliably predicts either starch component energy value or net whole plant energy value, for that matter. So, what criteria can be used in variety selection? Actually a combination of factors influence total farm profitability when forage is converted to value in the form of milk.

**SILAGE YIELD PER ACRE**
- **Yield is necessary to have quality.**
- Balanced grain / stover enables total cow performance and health over time.
- Fiber contributes ENERGY and other nutrients as well as health through effective rumen function.
- Grain contributes ENERGY density.
- STARCH DIGESTIBILITY of the grain component - Energy efficiency (as influenced by time in storage).

We have seen grain percentage is good information, but not necessarily far reaching. Recommendations to focus on “grain hybrids” categorically while ignoring “silage specific” hybrids, too, is intuitively appealing. However, it fails a simple research test as we see next. SEEDWAY conducted research trials over the last two years with multiple hybrids. Categorically selecting hybrids based on “grain or silage specific profile” did not positively enable higher starch concentration across 6 of the BEST hybrids pooled in each maturity group, with adequate sampling technique, and uniform populations at 34,000 plants per acre. Significant differences presented in **BOLD**. The only statistically significant different character was whole plant yield.

<table>
<thead>
<tr>
<th>GROUP</th>
<th>Moisture</th>
<th>Tons/AC</th>
<th>NDF</th>
<th>ADF</th>
<th>STARCH</th>
<th>PROTEIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Best SEEDWAY Grain Hybrids</td>
<td>63.5</td>
<td>32.8</td>
<td>45.5</td>
<td>23.9</td>
<td>25.7</td>
<td>6.5</td>
</tr>
<tr>
<td>6 Best COMPETITOR Grain Hybrids</td>
<td>64.2</td>
<td>31.2</td>
<td>45.5</td>
<td>26.3</td>
<td>26.0</td>
<td>6.7</td>
</tr>
<tr>
<td>6 Best LEAFY (Silage) Hybrids</td>
<td>63.0</td>
<td><strong>33.2</strong></td>
<td>45.8</td>
<td>26.2</td>
<td>25.7</td>
<td>6.8</td>
</tr>
</tbody>
</table>

This data demonstrates silage specifics can outyield grain hybrids without sacrificing quality. Starch percentage included as one quality consideration.
CORN TECHNOLOGY

CORN HYBRID TRAITS

Agrisure®, Agrisure Viptera®, Apron XL®, CruiserMaxx®, and Vibrance® are trademarks of a Syngenta Group Company.

Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, post emergent weed control of Liberty® herbicide for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of Bayer.

Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed 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 those stewardship requirements.

As of this printing no dicamba herbicide product has been approved for commercial in-crop use with Roundup Ready 2 Xtend® soybeans.

DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO Roundup Ready 2 Xtend® Soybeans in 2016 unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. While no in-crop use of dicamba is currently approved, some dicamba products may be labeled for weed control prior to planting a crop and subject to minimum plant back restrictions. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON Roundup Ready 2 Xtend® Soybeans, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. 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 Xtend® Soybeans and follow all pesticide product labeling.

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. 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.

B.t. products may not yet be registered in all states. Check with your Monsanto representative for the registration status in your state.

IMPORTANT IRM INFORMATION: Genuity® RIB Complete® corn blend products do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. Always read and follow IRM requirements.

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. Acceleron®, DroughtGard®, Genuity Design®, Genuity®, RIB Complete and Design®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready®, Roundup®, SmartStax and Design®, SmartStax®, VT Double PRO® and VT Triple PRO® are trademarks of Monsanto Technology LLC. LibertyLink and the Water Droplet Design® is a registered trademark of Bayer. Herculex® is a registered trademark of Dow AgroSciences LLC. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. All other trademarks are the property of their respective owners.
Silage Quality characteristics influence dairy farm profitability every day because your cows can detect small differences in forage quality and turn them into milk. All 365 days of the year.

Laboratory forage quality sample reports are a good starting point from which to start building a dairy ration, though long experience shows that cows detect quality differences better than current laboratory science. It’s simply the current state of the art. Laboratories do a good job, get better every year, but we are not yet able, as an industry, to predict how a forage will feed with high certainty. Building the ideal ration to reach the feeding objective doesn’t always happen on the first try. That’s why we keep adjusting rations as actual milk production shows up in the tank.

Our focus at SEEDWAY is to characterize the varietal component of genetic forage quality of our seed corn products. It takes more than variety to generate high quality corn silage, but variety choice for yield and quality is a great place to start.

Twenty-six years of silage quality testing clearly show that it takes a large data footprint to reliably predict varietal quality profiles. We have known for years that it takes replicated entries, representative sample collection, duplicate quality tests per sample, and multi-year data points to get this job done with suitable accuracy. Up to now, many of these objectives could not be met because of systemic limitations.

SEEDWAY expanded quality testing in 2014 with a new portable Near InfraRed testing system that enables us to generate a larger data footprint for each product. You may see the same final data point or rating. However, the total data footprint behind each rating will be many times larger than earlier information we were able to generate with manual handling systems that required shipping each sample to a forage laboratory. The portable NIR takes about 45 seconds to read a sample and reads it multiple times, too. Starting with the data in this publication our data points on silage quality will conservatively be ten times more robust than ever before. We’re confident this faster, larger data footprint will translate to better silage information for silage growers. It would take decades to generate the same data footprint using strip tests or on farm plots. While no evaluation system is perfect, this increase in testing capacity promises to eliminate bottlenecks in varietal silage evaluation.

At SEEDWAY, we’re not testing a grain product line to see what small differences we hope to find there.

We Test An Industry Wide Spectrum Of Genetics To Find The Strongest Combination Of Yield And Quality For Our Chief Critic. She is out in your barn 365 days of the year.
**Silage Production and Flex Acre Hybrid**

**SW 1990 - 1994GT**

- Conventional and Agrisure® GT versions of this short season silage yield winner for all areas of the Northeast.
- Strong seedlings with good early vigor record.
- Maintains growth and stature across variable conditions for high silage yield potential in the earliest maturity.
- Population flexible; flex ear type. Fast grain setup after pollination for good starch production in silage.
- Solid starch and oil content make high energy HMC grain for on farm feeding after silage storage is full.
- **Pest Tolerance** - Very Good
- **Limitations** - Adequate roots. Roots may not be suitable for muck soils.
- **Management** - Use for shortest maturity, strong emergence, high silage yield potential in maturity. **Structured refuge options / consider herbicide program.**

**SW 2400GENSS (RIB)**

- SmartStax® Corn with maximum insect protection for medium and long corn rotation acres where corn rootworm protection is necessary.
- No structured insect refuge required.
- Early flowering for short season, cool areas.
- Excellent Northern Corn Leaf Blight resistance and very good Rust resistance.
- Short stature, with higher content grain harvested earlier as silage.
- **Pest Tolerance** - Excellent
- **Limitations** - Avoid heavy stress environments.
- **Management** - Likes better soils and management.

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**AGRONOMIC CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity NY / CCB</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 1964GT</td>
<td><img src="AgrisureGT.png" alt="AgrisureGT" /></td>
<td>77 Days RM NY</td>
<td>3.5 / 4.5</td>
<td>Semi-Fixed</td>
<td>1</td>
<td>2</td>
<td>3</td>
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<tr>
<td>SW 1990 - 1994GT</td>
<td><img src="Conventional.png" alt="Conventional" /></td>
<td>80 Days RM NY</td>
<td>2.5 / 3</td>
<td>Flex</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>SW 2180</td>
<td>Conventional</td>
<td>84 Days RM NY</td>
<td>3.5 / 4.5</td>
<td>Fixed</td>
<td>1</td>
<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>SW 2400GENSS (RIB)</td>
<td><img src="SmartStax.png" alt="SmartStax" /></td>
<td>84 Days RM NY</td>
<td>3.5 / 3.5</td>
<td>Semi-Fixed</td>
<td>1.5</td>
<td>3</td>
<td>3.5</td>
</tr>
<tr>
<td>SW 2349 3000GT</td>
<td><img src="Agrisure3000GT.png" alt="Agrisure3000GT" /></td>
<td>86 Days RM NY</td>
<td>3 / 4</td>
<td>Semi-Fixed</td>
<td>2</td>
<td>4</td>
<td>2.5</td>
</tr>
<tr>
<td>SW 2359 3000GT</td>
<td><img src="Agrisure3000GT.png" alt="Agrisure3000GT" /></td>
<td>86 / 85 Days RM NY / CCB</td>
<td>3 / 4</td>
<td>Semi-Fixed</td>
<td>2</td>
<td>1</td>
<td>2.5</td>
</tr>
<tr>
<td>SW 2750 - 2754RR</td>
<td>Conventional</td>
<td>86 / 85 Days RM NY / CCB</td>
<td>3 / 3.5</td>
<td>Semi-Fixed</td>
<td>3.5</td>
<td>3.5</td>
<td>3</td>
</tr>
</tbody>
</table>
### SW 2359 3000GT

- Consistent producer of silage, especially suited to longer corn rotations where rootworm protection is necessary.
- Agrisure® GT and LibertyLink® tolerant.
- Medium height within its maturity, with outstanding stalks and roots.
- Widely adapted with good performance on lower productivity sites and increasing potential as soil productivity improves.
- Good grain content silage.

**Pest Tolerance** - Excellent

**Limitations** - Average plant size will require high populations to maximize silage yield potential.

**Management** - Allow soils and fertility to determine populations. Increase populations as soil productivity improves. Benefits from starter and sidedress nitrogen.

### SW 2750 - SW 2754RR

- Conventional and Roundup Ready® Corn 2 northern adapted hybrid.
- Solid silage producer with attractive seed price point.
- Good grain finish in fall with genetic resistance to many common ear molds.
- Medium to medium plus stature in maturity.
- Solid agronomics including roots.
- Moves north exceptionally well into shorter season and higher elevations where it is cooler.
- Good grain content silage since it is medium stature.

**Pest Tolerance** - Very Good

**Limitations** - No trait insect protection.

**Management** - Use for consistent silage yield potential, genetic diversity, and versatile fit for silage and HMC. Structured refuge options / consider herbicide program.

### Silage Specific Traits

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>Silage YIELD Potential</th>
<th>Grain TEXTURE / Digestibility</th>
<th>Fiber Digestibility</th>
<th>DISEASE RESISTANCE</th>
<th>Fungicide Response</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.5</td>
<td>Med./1</td>
<td>1</td>
<td>5</td>
<td>3.5</td>
<td>3.5 / 3.5</td>
</tr>
<tr>
<td>5</td>
<td>1.5</td>
<td>Med.+/1.5</td>
<td>2.5</td>
<td>5</td>
<td>2</td>
<td>3 / 2.5</td>
</tr>
<tr>
<td>3.5</td>
<td>2.5</td>
<td>Med.-/1.5</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>2.5 / 3.5</td>
</tr>
<tr>
<td>2</td>
<td>2.5</td>
<td>Med.-</td>
<td>3.5</td>
<td>-</td>
<td>1.5</td>
<td>- / 3.5</td>
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<tr>
<td>3</td>
<td>2</td>
<td>Med.-/1.5</td>
<td>2</td>
<td>5</td>
<td>3.5</td>
<td>3 / 3.5</td>
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<tr>
<td>1</td>
<td>2</td>
<td>Med.-/1.5</td>
<td>2.5</td>
<td>5</td>
<td>3</td>
<td>3 / 3</td>
</tr>
<tr>
<td>2.5</td>
<td>1.5</td>
<td>Med.-/1.5</td>
<td>1.5</td>
<td>5</td>
<td>4</td>
<td>2 / 3</td>
</tr>
</tbody>
</table>

**CONVENTIONAL HYBRID** - No trait fees or refuge requirement

**STRUCTURED REFUGE OPTIONS**/
Consider herbicide program.

**NEW HIBRIDS BOLD**

1 = BEST / TALLEST
9 = INADEQUATE / SHORTEST
4 = Midscale

### DISEASE RESISTANCE

- Gray Leaf Spot
- Northern Corn Leaf Blight
- Foliar / Stalk Anthracnose
- Fungicide Response

### POPULATION LEGEND

- High
- Med. - High
- Med. +
- Med.
- Med. - High
- Med. /-
- - / 3.5
- -

**Relative Maturity**: SEEDWAY rates hybrids in “days relative maturity” since it is most universally accepted in the region. This system compares hybrids accurately within the SEEDWAY product lineup. It should not be expected to compare directly to calendar days since corn varies growth according to environmental influences and management which are independent of the calendar. The NY value rates relative maturity for NY, New England and high elevation areas of PA in days. CCB (central corn belt latitude) value rates approximate maturity for OH, PA, MD, DE and VA in days.

Consult a SEEDWAY representative for additional information, or call the SEEDWAY corn product manager at 800-836-3710.

**KEEP GOOD PLANTING RECORDS**

Apply suitable herbicides to each hybrid / acre.
### SW 2901L

- Leafy hybrid with no GMO traits.
- Exceptional silage yield for maturity.
- Medium plus stature with solid agronomics supporting the large leafy plant type.
- Very high grain yield in all phases of testing and farm use. This leafy hybrid produces grain yield comparable with modern grain hybrids for good grain content silage.
- **Pest Tolerance** - Good to very good.
- **Limitations** - Main season silage hybrid. Will yield for grain on flex acres, though plenty of biomass to combine through.
- **Management** - Supply nutrients for high silage yield levels. This Leafy, like all Leafy hybrids, is indeterminate in growth and will continue to get taller, after flowering, during the grain filling period. This means late season nutrient supply to the canopy and grain fill is going on at the same time. Nutrient supply in the second half of the season supports the genetic yield enhancement that Leafy hybrids bring to silage production.

### SW 3019LGTCBLL

- Leafy silage with the Agrisure® GT/CB/LL trait package.
- Longer corn rotation fit with corn borer protection and Glyphosate/Glufosinate herbicide options.
- Medium - medium plus stature.
- Blocky ear with deep kernel. Plot topper candidate.
- Extremely high yielding in SEEDWAY grain trials which indicates favorable grain / stover relationship.
- **Pest Tolerance** - Very good - excellent.
- **Limitations** - Adequate roots in testing. We expect roots will not be quite as good as SW2901L for the wet soils or muckland.
- **Management** - Supply nutrients for high silage yield levels. This Leafy, like all Leafy hybrids, is indeterminate in growth and will continue to get taller, after flowering, during the grain filling period. This means late season nutrient supply to the canopy and grain fill is going on at the same time. Nutrient supply in the second half of the season supports the genetic yield enhancement that all Leafy hybrids bring to silage production.

### AGRONOMIC CHARACTERISTICS

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 2901L</td>
<td>LEAFY</td>
<td>87/86 Days RM NY/ CCB</td>
<td>1.5 / 4</td>
<td>Semi-Flex</td>
<td>1.5</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>SW 3019LGTCBLL</td>
<td>LEAFY +</td>
<td>91/90 Days RM NY/ CCB</td>
<td>2 / 4</td>
<td>Semi-Flex</td>
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<td>2.5</td>
<td>2</td>
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<tr>
<td>SW 2790</td>
<td>Conventional</td>
<td>87/86 Days RM NY/ CCB</td>
<td>2.5 / 3</td>
<td>Semi- Flex</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>SW 3100GENSS (RIB)</td>
<td></td>
<td></td>
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<tr>
<td>SW 3104RR</td>
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<td></td>
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<tr>
<td>SW 3569 3000GT</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SW 3100GENSS(RIB)- SW 3104RR

**Maturity 91/89 Days RM NY/ CCB**

- SmartStax® Corn with maximum insect protection for high performance silage acres at higher populations.
- Strong traited silage performance in last two years.
- Structural insect refuge not required.
- Very good stalks and roots.
- Northern Corn Leaf Blight tolerant.
- Good Stalk Anthracnose tolerance.
- **Pest Tolerance** - Excellent
- **Limitations** - May show minor physical herbicide effects on plants sprayed with growth regulator/ pigment inhibitor herbicides. Silage yield has not been impaired by either group of herbicides.
- **Management** - Recommended for longer silage rotations where Rootworm protection is needed.

### SW 3569 3000GT

**Maturity 93/92 Days RM NY/ CCB**

- Agrisure® 3000GT grain hybrid with extremely stable and high grain yield potential for northern silage and flex acre grain production.
- Long corn rotation fit with excellent economy rootworm/ corn borer protection.
- Medium plus stature for multiple uses.
- Very good agronomics.
- Performed well across soil types in testing.
- **Pest Tolerance** - Excellent
- **Limitations** - Stalk anthracnose tolerant. However, should not be used where extreme stalk anthracnose is known to be a pre-existing problem.
- **Management** - Use for any position in the corn rotation.

### SILAGE SPECIFIC TRAITS

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>SILAGE YIELD Potential</th>
<th>GRAIN TEXTURE / Digestibility</th>
<th>FIBER Digestibility</th>
<th>Gray Leaf Spot 1.5</th>
<th>Northern Corn Leaf Blight 4</th>
<th>Foliar / Stalk Anthracnose 1.5</th>
<th>Fungicide Response Med.</th>
<th>Plant Population Medium</th>
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<tbody>
<tr>
<td>1.5</td>
<td>1</td>
<td>Med.+/1.5</td>
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<td>4</td>
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<td>-</td>
<td>Med.</td>
<td>Medium</td>
</tr>
<tr>
<td>2.5</td>
<td>1</td>
<td>Med.-</td>
<td>1</td>
<td>3.5</td>
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<td>Med.+</td>
<td>Medium</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>Med.-</td>
<td>Pending</td>
<td>3.5</td>
<td>2.5</td>
<td>2 / 2.5</td>
<td>Med.+</td>
<td>Med.- High</td>
</tr>
<tr>
<td>3</td>
<td>1.5</td>
<td>Med./1.5</td>
<td>1.5</td>
<td>4</td>
<td>3</td>
<td>3 / 3</td>
<td>Med.+</td>
<td>High</td>
</tr>
<tr>
<td>3.5</td>
<td>1.5</td>
<td>Med./2</td>
<td>3-</td>
<td>5</td>
<td>3.5</td>
<td>3 / 3.5</td>
<td>High</td>
<td>Med.- High</td>
</tr>
</tbody>
</table>

**NEW HYBRIDS BOLD**

- 1 = BEST / TALLEST
- 9 = INADEQUATE / SHORTEST
- 4 = Midscale
- AVERAGE WITHIN MATURITY BAND

**Relative Maturity:** SEEDWAY rates hybrids in “days relative maturity” since it is most universally accepted in the region. This system compares hybrids accurately within the SEEDWAY product lineup. It should not be expected to compare directly to calendar days since corn varies growth according to environmental influences and management which are independent of the calendar. The NY value rates relative maturity for NY, New England and high elevation areas of PA in days. CCB (central corn belt latitude) value rates approximate maturity for OH, PA, MD, DE and VA in days.

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**KEEP GOOD PLANTING RECORDS**

Apply suitable herbicides to each hybrid / acre.
### SW 3654RR

**Maturity 91/90 Days RM NY/CCB**

- High yielding single trait glyphosate tolerant hybrid.
- Very good disease package including stalk and foliar anthracnose.
- Solid stalks and roots.
- Medium stature with strong ear flex which it can maintain across soil types.
- Solid ear package and husk cover.
- Substantial native insect tolerance in trials, no added cost.
- Performs very well at all yield levels.

**Pest Tolerance** - Very good

**Limitations** - No GMO rootworm protection.

**Management** - Exceptional choice where ear flex and high grain & stover digestibility are important. This versatile hybrid is very widely adapted and also fits different yield levels. Nice structured refuge option.

### SW 3600GENNS (RIB)

**Maturity 92/91 Days RM NY/CCB**

- Exceptional consistency of performance, including silage.
- Rootworm protected for continuous corn silage.
- Adequate disease package, tolerating Northern Corn Leaf Blight, Eyespot and most other northern corn diseases.
- Medium stature, semi-fixed ear, nice ear package & husk cover.
- Exceptional grain yield potential for high moisture corn.

**Pest Tolerance** - Excellent

**Limitations** - Average Gray Leaf Spot.

**Management** - Use any position in the corn rotation, including corn after corn and reduced tillage. Plant at higher densities for silage.

### AGRONOMIC CHARACTERS

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity NY / CCB</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
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<tbody>
<tr>
<td>SW 3654RR</td>
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<td>91 / 90 Days RM NY / CCB</td>
<td>2.5 / 3.5</td>
<td>Semi-Fixed</td>
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<tr>
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<td></td>
<td>92 / 91 Days RM NY / CCB</td>
<td>2.5 / 3.5</td>
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<td>1.5</td>
<td>3</td>
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<tr>
<td>SW 3750</td>
<td>Conventional</td>
<td>93 / 92 Days RM NY / CCB</td>
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<td>3</td>
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<tr>
<td>SW 3937.bmr (Factsheet Available)</td>
<td>BROWN MIDRIB</td>
<td>94 / 92 Days RM NY / CCB</td>
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<td>Semi-Flex</td>
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<td>SW 3768GENSS (RIB)</td>
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<td>95 / 94 Days RM NY / CCB</td>
<td>3 / 3</td>
<td>Semi-Fixed</td>
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<td>2.5</td>
<td>2</td>
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<tr>
<td>SW 3869 3000GT</td>
<td></td>
<td>98 / 97 Days RM NY / CCB</td>
<td>3.5 / 3.5</td>
<td>Semi-Fixed</td>
<td>2.5</td>
<td>3</td>
<td>3.5</td>
</tr>
</tbody>
</table>
**SW 3768GENSS (RIB)**

- **SmartStax®** Corn with refuge in the bag for long silage rotation acres.
- **Strong** top end grain yield, semi-erect leaf bringing showy look to the field.
- **Better** to good soils with supporting management.
- **Good** Northern Corn Leaf Blight tolerance.
- **Goes** north as full season hybrid.
- **Limited** observations south-moderate caution-need more data.
- **16-18 row** ear type for high grain content silage.
- **Solid** agronomics in testing.

**Pest Tolerance** - Excellent

**Limitations** - Well adapted-better with adequate drainage.

**Management** - Suggest 32,000 to 36,000 population for silage use. Better performance with good fertility, especially nitrogen and potassium. Fungicides further enhance performance.

---

**SW 3869GTCLLRW**

- **SW 3869GTCLLRW** (Agrisure® 3000GT) trait stack combines Glyphosate and LibertyLink® resistance with corn borer and corn rootworm protection.
- **Yield** with good agronomics for no worries.
- **Starts** with outstanding seedling vigor, finishing with healthy plants.
- **16-18 row** girthy ear, moves north and south.
- **Minimum** tillage and no-till adapted.

**Pest Tolerance** - Excellent

**Limitations** - Prefers better soils. Average performance when late season drought stress is high to extreme.

**Management** - Push for silage yield 28,000-34,000 range.

---

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>Silage Yield Potential</th>
<th>Grain Texture / Digestibility</th>
<th>Fiber Digestibility (at silage maturity)</th>
<th>Disease Resistance</th>
<th>Fungicide Response</th>
<th>POPULATION</th>
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<tbody>
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<td></td>
<td></td>
<td>Gray Leaf Spot</td>
<td></td>
<td>Plant Population</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Northern Corn Leaf Blight</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Foliar / Stalk Anthracnose</td>
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</tr>
</tbody>
</table>

**NEW HYBRIDS BOLD**

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**KEEP GOOD PLANTING RECORDS**

Apply suitable herbicides to each hybrid / acre.
SILAGE PRODUCTION and FLEX ACRE HYBRIDS

**E390L - SW 3904LRR**

- Leafy hybrid with conventional and Roundup Ready® Corn 2 versions.
- Elevated silage performance in both yield and forage quality.
- Unique genetics & Northeast adaptation.
- Leafy gene, high bio-mass accumulation rate.
- Balanced grain/stover production.
- Exceptional grain yield with adequate fertility for high grain yields. However, its high bio-mass makes grain harvest more challenging as high moisture corn.

**SW 3854RR**

- Single trait Roundup Ready® Corn 2 similar in plant profile to SW 4704RR with promising quality numbers.
- Healthy, nice kernel depth & expansion, with good ear package.
- Has moved north/south well, and adapted across locations.
- Handled foliar and stalk Anthracnose in the region.
- A single trait RR option for the high crop residue acre.
- Much better ear flex than most alternatives of the maturity with special fit to low-medium yield environments. Yield history good in high yield locations, however SW 3854RR adapts to the full yield spectrum we encounter across the variable Northeast.

**Maturity 98/94 Days RM NY/CCB**

- Often compared to by competition- seldom equaled in total silage performance.
- Pest Tolerance - Good
- Limitations - Grain harvest possible, not as easy.
- Management - Test forage to time harvest properly. Forage is commonly drier than it appears.

**E390L - Conventional, SW 3904LRR - Glyphosate Tolerant**

**Conventional Hybrid - No trait fees or refuge requirement**

**SW 3854RR**

**Maturity 99/97 Days RM NY/CCB**

- Pest Tolerance - Very Good
- Limitations - No trait insect protection.
- Management - Versatile, all uses, adds genetic diversity to the farm cropping plan.

**Leafy gene, high bio-mass accumulation rate. Balanced grain/stover production. Exceptional grain yield with adequate fertility for high grain yields. However, its high bio-mass makes grain harvest more challenging as high moisture corn.**

**Agronomic Cha**

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity NY / CCB</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>E390L - SW 3904LRR</td>
<td>Conventional</td>
<td>98 / 94 Days RM NY / CCB</td>
<td>1 / 4</td>
<td>Flex</td>
<td>3</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>SW 3854RR</td>
<td></td>
<td>99 / 97 Days RM NY / CCB</td>
<td>2.5 / 3</td>
<td>Flex</td>
<td>2.5</td>
<td>2.5</td>
<td>2</td>
</tr>
<tr>
<td>SW 4009VIP</td>
<td></td>
<td>100 / 99 Days RM NY / CCB</td>
<td>2.5 / 3.5</td>
<td>Fixed</td>
<td>2.5</td>
<td>2</td>
<td>3.5</td>
</tr>
<tr>
<td>SW 4010GENSS (RIB)</td>
<td></td>
<td>100 / 99 Days RM NY / CCB</td>
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<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>SW 3994GT - 3990VIP</td>
<td></td>
<td>99 / 98 Days RM NY / CCB</td>
<td>1.5 / 2.5</td>
<td>Semi-Flex</td>
<td>2</td>
<td>2</td>
<td>3.5</td>
</tr>
</tbody>
</table>
## SW 4009VIP

**Maturity 100/99 Days RM NY/CCB**

- SW 4009VIP trait stack combines Glyphosate and LibertyLink® resistance with corn borer and corn rootworm protection.
- Excellent silage yield and quality history for traited product.
- Widely adapted across environments for silage including northern sites and higher, cooler elevations.
- Premier traited silage producer with reasonable pricepoint.

**Pest Tolerance** - Excellent

**Limitations** - Prolonged wet feet can plateau silage yield.

**Management** - Keep populations on the high side. Nice selection for narrow rows due to compact, efficient canopy.

### Characteristics

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>Silage Yield Potential</th>
<th>Grain Texture Digestibility</th>
<th>Fiber Digestibility (at silage maturity)</th>
<th>Disease Resistance</th>
<th>Pest Tolerance</th>
<th>Management</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>Med./1</td>
<td>1</td>
<td>Gray Leaf Spot</td>
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<td>Med.</td>
<td>Medium</td>
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<tr>
<td>2</td>
<td>1.5</td>
<td>Med./1</td>
<td>1</td>
<td>Northern Corn Leaf Blight</td>
<td>1.5</td>
<td>Med.</td>
<td>Med. - High</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Med./1</td>
<td>1</td>
<td>Foliar / Stalk Anthracnose</td>
<td>2 / 2</td>
<td>Med.</td>
<td>High</td>
</tr>
<tr>
<td>1.5</td>
<td>2.5</td>
<td>Med. 1.5</td>
<td>1.5</td>
<td>Fungicide Response</td>
<td>-</td>
<td>Med. +</td>
<td>Med. - High</td>
</tr>
<tr>
<td>6</td>
<td>1.5</td>
<td>Med./2.5</td>
<td>2.5</td>
<td>Plant Population</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### DISEASE RESISTANCE

- **Gray Leaf Spot**
- **Northern Corn Leaf Blight**
- **Foliar / Stalk Anthracnose**

### Population

- **Plant Population**
  - Medium
  - Med. - High
  - High
  - Med. +

### LEGEND

- NEW HYBRIDS BOLD
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- 4 = Mid-scale
- AVERAGE WITHIN MATURITY BAND

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### KEEP GOOD PLANTING RECORDS

Apply suitable herbicides to each hybrid / acre.
### SW 4018LGENVT3P (RIB) Maturity 100/99 Days RM NY/CCB

- Leafy silage specific with Genuity® VT TRIPLE PRO® RIB Complete® protection.
- Rootworm and corn borer resistant for any position in the corn rotation.
- Refuge in the bag - no structural refuge needed.
- Roundup® ease and safety.
- Very tall, medium dark green with adequate agronomics.
- Finishes well in northern areas and moves south for wide silage adaptation.
- Medium plus grain fill period for making good grain content leafy silage.

- **Pest Tolerance** - Excellent
- **Limitations** - Not well suited to low fertility or thin, poor soils.
- **Management** - Target to soils with adequate moisture and fertility for elevated bio-mass production. Potassium medium to high range to support full genetic silage yield potential.

### SW 4200LV-SW 4204LVRR Maturity 102/100 Days RM NY/CCB

- High-yielding leafy with very high bio-mass production.
- Extremely wide adaptation, including Northern zones.
- Accumulates dry matter rapidly in vegetative and grain fill stages for maximum use of seasonal resources.
- Top agronomics for such a large plant type.
- Combines silage yield and quality in one package.
- Cornerstone of value on regional dairy farms. If you have a land base that is stretching to feed the herd, here’s a possible solution.

- **Pest Tolerance** - Very good
- **Limitations** - Nitrogen/Potassium shortage limits performance.
- **Management** - Moderate populations are suitable for general silage production. Increased populations will work when nutrients are balanced and in adequate supply. Nice choice for first year corn and acres with liquid manure.

### SW 4018LGENVT3P (RIB) Maturity 100/99 Days RM NY/CCB

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity Ny / CCB</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
</tr>
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<tbody>
<tr>
<td>SW 4018LGENVT3P (RIB)</td>
<td></td>
<td>100 / 99 Days RM NY / CCB</td>
<td>1 / 3</td>
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<td>3.5</td>
<td>3.5</td>
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<td>SW 4200LV - SW 4204LVRR</td>
<td>Conventional</td>
<td>102 / 100 Days RM NY / CCB</td>
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<td>2.5</td>
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<tr>
<td>SW 5410</td>
<td>Conventional</td>
<td>104 / 103 Days RM NY / CCB</td>
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<td>SW 5430GENSS (RIB)</td>
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<td>1</td>
<td>2.5</td>
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<td>Semi-Flex</td>
<td>1.5</td>
<td>2.5</td>
<td>3.5</td>
</tr>
</tbody>
</table>
**SW 5410**

- Conventional hybrid with consistent silage and grain performance across years and locations.
- Extremely erect upper canopy suited to higher silage populations.
- Exceptionally strong roots.
- Medium plus stalk strength with genetic resistance to first generation corn borer. Like most conventionals will have limited tolerance to second generation corn borer.
- Flowers medium-late for maturity with exceptional rate of maturation after flowering, including Northern environments.
- Exceptional yield consistency has been its strength.
- Medium multi-genic Northern Corn Leaf Blight resistance.

- Can show late lesions with little effect on performance.
- **Pest Tolerance** - Very good north. Pest tolerance may taper as Southern zones with higher pressure are encountered.
- **Limitations** - Conventional, includes no insect trait protection.
- **Management** - Take advantage of high population tolerance.

**Conventional Hybrid** - No trait fees or refuge requirement

---

**SW 5430GENSS (RIB)**

- SmartStax® Corn with maximum insect protection package for any silage acre, including continuous corn.
- Roundup Ready® Corn 2 ease and safety.
- Medium plant size with good silage yield potential at higher planting densities.
- High grain content silage potential.
- Medium grain texture.

- **Pest Tolerance** - Excellent
- **Limitations** - This hybrid may not show extended late season stay green. Silage will likely not be noticeable.
- **Management** - Strong continuous corn silage choice well suited to managing as high moisture corn after silage storage is full. Nice flex acre option for grain where rootworm protection is needed. This hybrid dries quickly after silage stage, so grain moistures should be monitored closely to time high moisture corn harvest at appropriate storage levels.

---

**CARACTERISTICS**

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>SILAGE YIELD</th>
<th>GRAIN TEXTURE / Digestibility</th>
<th>FIBER Digestibility (at silage maturity)</th>
<th>DISEASE RESISTANCE</th>
<th>POPULATION</th>
<th>LEGEND</th>
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<tr>
<td></td>
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<td></td>
<td>Gray Leaf Spot</td>
<td>Northern Corn Leaf Blight</td>
<td>Foliar / Stalk Anthracnose</td>
<td>Fungicide Response</td>
</tr>
<tr>
<td>5</td>
<td>Med.-/ 1.5</td>
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<td>2</td>
<td>3.5</td>
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<td>3.5 / 3</td>
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<td>Med.-/ 1</td>
<td></td>
<td>1</td>
<td>2.5</td>
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<td>1.5 / 2</td>
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<td>1 (Pending)</td>
<td>Med./ 1.5</td>
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<td>2.5</td>
<td>3</td>
<td>2.5 / 2.5</td>
<td>Med.+</td>
</tr>
<tr>
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<td>Med./1.5</td>
<td></td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>3 / 3</td>
</tr>
<tr>
<td>3.5</td>
<td>Med.-</td>
<td></td>
<td>2</td>
<td>-</td>
<td>2</td>
<td>2.53 / 3</td>
</tr>
</tbody>
</table>

**NEW HYBRIDS BOLD**

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**AVERAGE WITHIN MATURITY BAND**

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**KEEP GOOD PLANTING RECORDS**

Apply suitable herbicides to each hybrid / acre.
### Hybrid Parameters

**SW 5554GT-SW 5559GTRW**  
Maturity: 106/105 Days  
NY/CB

- Proven & versatile Agrisure® GT for grain. The new Agrisure® GT/RW version adds corn rootworm protection for long rotations.  
- Very high silage and grain yield demonstrated on farm and across research trials.  
- Flex ear, typically 16 row with girth, plus good kernel size.  
- Proven agronomics across years in MD, PA, NJ, NY and New England.  
- Nice silage profile everywhere the maturity is grown.

**SW 6601L-SW 6604LRR**  
Maturity: 108/107 Days  
NY/CB

- Widely adapted leafy silage specific hybrid conventional and single trait Roundup Ready® Corn 2 versions.  
- Exceptional north and south adaptation due to early flowering for maturity, unusual in a fuller season hybrid.  
- Accumulates dry matter and grain fills quickly.  
- Proven agronomics for tall plant type.  
- Combines yield and forage quality.

### Pest Tolerance

- Good to very good

### Limitations

- Yields in the presence of Northern Corn Leaf Blight, can show some lesions if left for grain.

### Management

- Extremely versatile grain and silage. GT/RW version expands opportunity to any silage acre. GT Version is a structured refuge option.

### AGRONOMIC CHA

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity NY/CB</th>
<th>Plant/Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
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<tbody>
<tr>
<td>SW 5478GENVT3P</td>
<td></td>
<td>106 / 104 Days</td>
<td>2.5 / 3.5</td>
<td>Semi-Flex</td>
<td>1.5</td>
<td>2.5</td>
<td>3.5</td>
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<tr>
<td>SW 5554GT - 5559GTRW</td>
<td></td>
<td>106 / 105 Days</td>
<td>2 / 3</td>
<td>Flex</td>
<td>3</td>
<td>4</td>
<td>3.5</td>
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<tr>
<td>SW 6601L - SW 6604LRR</td>
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<td>1.5 / 4</td>
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<td>4</td>
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<td>108 / 107 Days</td>
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<tr>
<td>SW 6604GT</td>
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<tr>
<td>SW 6630GENSS (RIB)</td>
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<td>110 / 109 Days</td>
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<td>2</td>
<td>1.5</td>
</tr>
<tr>
<td>SW 6640</td>
<td>Conventional</td>
<td>111 / 110 Days</td>
<td>2 / 3</td>
<td>Flex</td>
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<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>SW 6658GENVT3P</td>
<td></td>
<td>111 / 110 Days</td>
<td>2.5 / 3.5</td>
<td>Semi-Flex</td>
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<td>5</td>
<td>3</td>
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### Characteristics

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>SILAGE YIELD Potential</th>
<th>GRAIN TEXTURE / Digestibility</th>
<th>FIBER Digestibility</th>
<th>Gray Leaf Spot</th>
<th>Northern Corn Leaf Blight</th>
<th>Foliar / Stalk Anthracnose</th>
<th>Fungicide Response</th>
<th>Pest Tolerance</th>
<th>Limitations</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.5</td>
<td>Med. Hard/2</td>
<td>2.5</td>
<td>2</td>
<td>1.5</td>
<td>2 / 2</td>
<td>Med.+</td>
<td>Excellent</td>
<td>Generally adequate plant health to protect yield. Fungicide protection may provide additional boost in performance, especially in corn after corn rotations.</td>
<td>Prompt harvest timing. Matures well.</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Med./1</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>3 / 3</td>
<td>Med.+</td>
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<td>-</td>
<td></td>
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<td>3.5</td>
<td>1</td>
<td>Med./1</td>
<td>1</td>
<td>5</td>
<td>2</td>
<td>3 / 3</td>
<td>Med.+</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Med.</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>2.5 / 2</td>
<td>Medium</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td>2.5</td>
<td>Hard/2</td>
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<td>1</td>
<td>3</td>
<td>2.5 / 1.5</td>
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<td>-</td>
<td>-</td>
<td></td>
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<tr>
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<td>1</td>
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<td>1.5</td>
<td>2</td>
<td>Med.- High</td>
<td>-</td>
<td>-</td>
<td></td>
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<tr>
<td>3.5</td>
<td>1.5</td>
<td>Med./1.5</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>- / 2</td>
<td>Med.+</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Med./2.5</td>
<td>2</td>
<td>3</td>
<td>2.5</td>
<td>3 / 4</td>
<td>High</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Farm Seed Help Desk**

farmseed@seedway.com

Email SEEDWAY with questions on products, utilization, availability, pricing and more.

A timely response will be given to your inquiry.

**NEW HYBRIDS BOLD**

1 = BEST / TALLEST
9 = INADEQUATE / SHORTEST
4 = Midscale

**AVERAGE WITHIN MATURITY BAND**

Relative Maturity: SEEDWAY rates hybrids in “days relative maturity” since it is most universally accepted in the region. This system compares hybrids accurately within the SEEDWAY product lineup. It should not be expected to compare directly to calendar days since corn varies growth according to environmental influences and management which are independent of the calendar. The NY value rates relative maturity for NY, New England and high elevation areas of PA in days. CCB (central corn belt latitude) value rates approximate maturity for OH, PA, MD, DE and VA in days.

Consult a SEEDWAY representative for additional information, or call the SEEDWAY corn product manager at 800-836-3710.

**KEEP GOOD PLANTING RECORDS**

Apply suitable herbicides to each hybrid / acre.
### SW 6770GENSS (RIB)
**Maturity 112 Days RM CCB**
- Very high grain yields in SEEDWAY testing with excellent drydown.
- Complete SmartStax® insect protection package with glyphosate herbicide system for ease and crop safety.
- Widely adapted with stress tolerance and health to go south.
- Recommended for any production environment.
- Excellent corn after corn choice, including cold soils.
- Average Gray Leaf Spot tolerance.
- Excellent Northern Corn Leaf Blight rating.
- This hybrid is very girthy with 18-20 rows of grain.
- Pest Tolerance - Excellent
- Shelling ease - Excellent
- Ear Picking - Very Good
- Limitations - Limited ear flex.
- Management - Use as mainseason hybrid anywhere the maturity is grown.

### SW 6999 3000GT
**Maturity 114 Days RM CCB**
- Consistent high yield punch in testing and first year introduction on grower fields.
- Agrisure® 3000GT trait package with corn borer and corn rootworm protection.
- Glyphosate herbicide system.
- Good farm agronomics with excellent late season health and grain quality.
- Consistency ear development down row, well suited for corn after corn acres.
- A Mid-Atlantic Gray Leaf Spot tolerant option.
- Pest Tolerance - Excellent
- Limitations - Average emergence in cold soils.
- Management - Use as mainstream early hybrid going south or full season choice going north.

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Traits</th>
<th>Relative Maturity NY / CCB</th>
<th>Plant / Ear Height</th>
<th>Ear Type</th>
<th>Emergence</th>
<th>Stress Tolerance</th>
<th>Staygreen</th>
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<tbody>
<tr>
<td>SW 6709L 3000GT</td>
<td>Agrisure® 3000GT</td>
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<td>3.5</td>
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<td>SW 6718GENVT3P</td>
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<td>112 / 111 Days RM NY / CCB</td>
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<td>Semi-Flex</td>
<td>3.5</td>
<td>3</td>
<td>3.5</td>
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<tr>
<td>SW 6770GENSS (RIB)</td>
<td>SmartStax®</td>
<td>112 / 111 Days RM NY / CCB</td>
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<td>Semi- Fixed</td>
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<td>1.5</td>
<td>2.5</td>
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<tr>
<td>SW 6999 3000GT</td>
<td>Agrisure® 3000GT</td>
<td>114 Days RM CCB</td>
<td>2.5 / 3.5</td>
<td>Semi-Flex</td>
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<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>SW 7000</td>
<td></td>
<td>114 Days RM CCB</td>
<td>2.5 / 2</td>
<td>Semi-Flex</td>
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<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td>SW 7200GENSS (RIB)</td>
<td>SmartStax®</td>
<td>114 Days RM CCB</td>
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<td>Semi-Flex</td>
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<td>3.5</td>
<td>2.5</td>
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<tr>
<td>SW 7700GENSS (RIB)</td>
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<td>115 Days RM CCB</td>
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<td>1.5</td>
<td>1.5</td>
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<tr>
<td>SW 8000</td>
<td></td>
<td>117 Days RM CCB</td>
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<td>1.5</td>
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<td>SW 8109 3000GT</td>
<td>Agrisure® 3000GT</td>
<td>117 Days RM CCB</td>
<td>2.5 / 2</td>
<td>Semi-Flex</td>
<td>3</td>
<td>1.5</td>
<td>2.5</td>
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</table>

**AGRONOMIC CHAR**
### SW 7700GENSS (RIB)  
**Maturity 115 Days RM CCB**

- **Step change in full season grain yield with convenient SmartStax® Corn package.** Strong on silage yield, too.
- **From the Southern PA border to the East Coast.** Or, East to West, SW 7700GENSS (RIB) has shown remarkable performance stability.
- **Good Gray Leaf Spot & Northern Corn Leaf Blight resistance,** and very good Southern Corn Leaf Blight resistance.
- **Medium tall with very good stalks and roots.**
- **Solid late season staygreen and health.**

**Pest Tolerance** - Excellent  
**Shelling ease** - Very good  
**Ear Picking** - Very Good  
**Limitations** - Glyphosate would normally be the herbicide of choice with this product. However, use growth regulator, pigment inhibitor, and sulfonylurea herbicides in moderation for best crop safety.

**Management** - Near food grade grain quality with high test weight.

### SW 8109 3000GT  
**Maturity 117 Days RM CCB**

- **Full season yield with fully supporting plant health and season ending staygreen.**
- **Supporting agronomics.** Suited to high residue “corn after corn” production. 16-18 row ears with deeper kernels and high test weight.
- **Combines Northern Corn Leaf Blight and Gray Leaf Spot tolerance for full season insurance.**

**Pest Tolerance** - Excellent  
**Limitations** - Not well suited to northern long season sites. Use caution north of the Mason-Dixon line. OK southeast corner of Pennsylvania.

**Management** - Use on productive land to maximize yield potential. Plant in warm soils.

---

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Root Strength</th>
<th>Silage Yield Potential</th>
<th>Grain Texture Digestibility</th>
<th>Fiber Digestibility</th>
<th>Gray Leaf Spot</th>
<th>Northern Corn Blight</th>
<th>Foliage Blight</th>
<th>Stalk Anthracnose</th>
<th>Fungicide Response</th>
<th>Plant Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1</td>
<td>Med.- / 1</td>
<td>1</td>
<td>4</td>
<td>3.5</td>
<td>3 / 3.5</td>
<td>1</td>
<td>Medium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 1</td>
<td>Med.- / 1</td>
<td>1.5</td>
<td>2</td>
<td>2</td>
<td>2 / 2</td>
<td>Medium</td>
<td>Med.- High</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 2.5</td>
<td>Med.+ / 2.5</td>
<td>3</td>
<td>1.5</td>
<td>1.5</td>
<td>2</td>
<td>Medium</td>
<td>Med.- High</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 3</td>
<td>Med./2.5</td>
<td>3.5</td>
<td>2</td>
<td>2</td>
<td>1.5 / 1.5</td>
<td>Medium</td>
<td>Med.- High</td>
<td></td>
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<tr>
<td>1.5 2.5</td>
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<td>-</td>
<td>2.5</td>
<td>2.5</td>
<td>-</td>
<td>Med.- High</td>
<td>Med.- High</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 2</td>
<td>Hard / 2.5</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3 / 3</td>
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<td>2.5</td>
<td>-</td>
<td>Med.-</td>
<td>Med.- High</td>
<td></td>
<td></td>
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<tr>
<td>2 1.5</td>
<td>Med.+ / 2.5</td>
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<td>2</td>
<td>2</td>
<td>1.5 / 1</td>
<td>Medium</td>
<td>Med.- High</td>
<td></td>
<td></td>
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</tbody>
</table>

### DISEASE RESISTANCE

- **Relative Maturity:** SEEDWAY rates hybrids in “days relative maturity” since it is most universally accepted in the region. This system compares hybrids accurately within the SEEDWAY product lineup. It should not be expected to compare directly to calendar days since corn varies growth according to environmental influences and management which are independent of the calendar. The NY value rates relative maturity for NY, New England and high elevation areas of PA in days. CCB value rates approximate maturity for OH, PA, MD, DE and VA in days.

### POPULATION

- **LEGEND**
  - NEW HYBRIDS BOLD
  - 1 = BEST / TALLEST  
  - 9 = INADEQUATE / SHORTEST
  - 4 = Midscale AVERAGE WITHIN MATURITY BAND

- **Relative Maturity:** SEEDWAY rates hybrids in “days relative maturity” since it is most universally accepted in the region. This system compares hybrids accurately within the SEEDWAY product lineup. It should not be expected to compare directly to calendar days since corn varies growth according to environmental influences and management which are independent of the calendar. The NY value rates relative maturity for NY, New England and high elevation areas of PA in days. CCB value rates approximate maturity for OH, PA, MD, DE and VA in days.

- **Management:** Consult a SEEDWAY representative for additional information, or call the SEEDWAY corn product manager at 800-836-3710.

- **KEEP GOOD PLANTING RECORDS**
  - Apply suitable herbicides to each hybrid / acre.
### A Corn Plant’s Leaves Are Sugar Factories

A corn plant's leaves are sugar factories that convert sunlight to sugar then into yield of stover followed by starch. After flowering, simple plant sugars begin conversion to starch at the developing kernels on the ear. Starch accumulation is heavily dependent on leaf area above the ear, the part of the canopy which intercepts sunlight. This relationship is particularly critical in silage production.

Yield is heavily dependent on leaf area index of the upper canopy which is the simple relationship between leaf and ground area. More leaf area per acre collects more sunlight per acre for maximum seasonal growing efficiency. More leaves at the same population equate to more yield if nutrients support it. Leafy plants excel at driving up silage yields with less population and seed cost. They have the best silage solar panels of all.

### Table Summary:

- **1** - If standard short season hybrids must be planted for silage they should be planted at high populations to compensate for limited leaf area.
- **2** - If standard longer season hybrids are planted for silage, populations on the high side improve yield.
- **3** - Where silage specific Leafies are chosen for optimizing silage yield, you can save on seed cost at medium populations without sacrificing yield potential. Grain and stover yield potential per plant is higher which makes this possible. This compensation does not reduce total stover or starch yield per acre. A seed savings of 8% to 15% is possible.

### Hybrid Types and Populations

<table>
<thead>
<tr>
<th>Hybrid Type</th>
<th>Leaves Above Ear</th>
<th>Leaf Area Above Ear</th>
<th>Stover / Starch Yield Per Plant</th>
<th>Optimal Silage Population Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Hybrid (Short Season)</td>
<td>5</td>
<td>90%</td>
<td>Low</td>
<td>36,000 ppa</td>
</tr>
<tr>
<td>Standard Hybrid (Long Season)</td>
<td>7</td>
<td>100%</td>
<td>Low-Med.</td>
<td>33 - 35,000 ppa</td>
</tr>
<tr>
<td>LEAFY HYBRID</td>
<td>8-13</td>
<td>130-170%</td>
<td>Med.-High</td>
<td>28,000 - 33,000 ppa</td>
</tr>
</tbody>
</table>

*Total leaf area of Leafies can be 40% higher than standard hybrids* (see additional detail in the quality section on page 5)
How Can I Improve Profitability Through Higher Corn Silage Yield?

Yield is a large factor in producing low cost feed and nutrients on farm without adding additional purchased supplements for the ration. It's not easy to measure the economics, but can be proven long term profit making strategy. Here are three places to look for improvements in corn silage yield which help reduce feed cost that start with higher corn silage yields.

1- Plant Population

Plant population affects biomass production and seed cost. Increases in corn silage yield can come with higher populations - to a point - if there are no major limiting factors such as poor hybrid choice, crop nutrient supply, or nutrient imbalance. These last factors can quickly cap yield.

When hybrid genetics, nutrient supply, and population are synchronized, the acre has the best chance of optimizing corn silage yield, though not every acre has the same yield potential.

Like all farming endeavors, mother nature is the uncontrolled element we can’t account for.

Let’s see what plant structure and population can do:

2- Crop nutrient supply

The first nutrient removal table below demonstrates grain and silage harvest nutrient removal for each unit of yield. It is clear from the start that harvesting stover in corn silage shifts nutrient removal. Potassium, and Nitrogen in some cases, can easily become the first nutrients that limit bred in silage yield potential. Since manure applications over time supply substantial amounts of Phosphorus and Nitrogen to soils, Potassium often becomes the first limiting factor. Nitrogen a close second.

Intensive silage production such as continuous corn silage, or even corn after corn in rotation, puts more pressure on nutrient balance and supply. A little attention here can pay substantial silage yield dividends.

3 - Hybrid Selection

Genetics strongly influence silage yield. In our 2015 SEEDWAY silage research program we harvested more than 1200 plots.

Nutrient management and populations were adjusted to constant levels for each entry. Commercial entries from SEEDWAY and competitors were grown in the chosen 33-34,000 population window. Wide spreads in silage yield were evident in 2015 which continued the same pattern of the last two decades. As long as population and fertility are standardized and uniform, superior silage genetics emerge from the crowded commercial field.

It’s as easy as 1-2-3. Put together the right hybrid, fertility and population. It will save you money on seed cost while growing all the yield you can.

Getting the most for your money relies on balancing these three pieces.

<table>
<thead>
<tr>
<th>NUTRIENT REMOVAL per bushel of grain PER TON OF SILAGE</th>
<th>NITROGEN (lbs / BU)</th>
<th>PHOSPHORUS (lbs / BU)</th>
<th>POTASSIUM (lbs / BU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAIN CORN (FIRST YR. CORN)</td>
<td>1</td>
<td>.35 - 40</td>
<td>.35 - .40</td>
</tr>
<tr>
<td>SILAGE (FIRST YR. CORN)</td>
<td>1.4-1.5 *</td>
<td>.50 - .60 *</td>
<td>.60 - .70 *</td>
</tr>
</tbody>
</table>

Data: from combination of Penn State, Purdue, Univ. Minnesota research.

<table>
<thead>
<tr>
<th>YIELD TARGET STEPS CALCULATED (BU/AC) (from above removal rates)</th>
<th>NITROGEN (Grain) / (SILAGE)</th>
<th>PHOSPHORUS (Grain) / (SILAGE)</th>
<th>POTASSIUM (Grain) / (SILAGE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW YIELD STEP (120 BU grain) (20.0 ton sil.)</td>
<td>120 / 168</td>
<td>45 / 66</td>
<td>45 / 78</td>
</tr>
<tr>
<td>MEDIUM STEP (160 BU grain) (26.6 ton sil.)</td>
<td>160 / 224</td>
<td>60 / 88</td>
<td>60 / 104</td>
</tr>
<tr>
<td>HIGH YIELD STEP (200 BU grain) (33.3 ton sil.)</td>
<td>200 / 280</td>
<td>75 / 110</td>
<td>75 / 130</td>
</tr>
</tbody>
</table>

Grain / Silage yield comparisons - using standard 6 bushels of grain equivalent to 1 ton silage.

RESEARCH

The following table shows High entry - Low entry yield spreads from 2015 SEEDWAY silage yield and quality tests with constant nutrient supply and population density. Each entry was replicated three times and hand thinning to a constant 33-34 population range. Easy to see hybrid choices can substantially impact measured yield across all maturities.

<table>
<thead>
<tr>
<th>( T/AC adj. 68% mois.)</th>
<th>HI</th>
<th>LO</th>
<th>SPREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-90 RM</td>
<td>34.2</td>
<td>22.4</td>
<td>11.9</td>
</tr>
<tr>
<td>90-104 RM</td>
<td>35.5</td>
<td>22.2</td>
<td>13.3</td>
</tr>
<tr>
<td>104-112 RM</td>
<td>46.8</td>
<td>17.6</td>
<td>29.1</td>
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<tr>
<td>112-120 RM</td>
<td>39.5</td>
<td>20.1</td>
<td>19.4</td>
</tr>
</tbody>
</table>
**SHOCKWAVE BR** Fall Dormancy 4

Shockwave BR combines a BRANCH ROOTED trait with excellent disease resistance to deliver outstanding performance. Performs better in higher water tables. High forage yield makes it a productive variety in both normal and wetter conditions. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**STOCKPILE** Fall Dormancy 4

Stockpile is a true leader when it comes to performance. With its excellent quality, persistence and disease resistance packaged with consistent top yields, Stockpile is an excellent choice for growers who demand the most out of their alfalfa crop. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**Ultracoat™ Seed Enhancement**

Ultracoat is a talc based coating that provides growers with fast emerging and vigorous plants.

**Benefits of Ultracoat™**

- Ultracoat’s unique layering process provides an excellent delivery system for seed treatments and inoculants.
- Talc based coating supports very high rhizobia levels and enhances on seed shelf life.
- Exceptional coverage and durability.
- Increased flowability allows for excellent seed placement.
- Isolates users from seed treatments for increased user safety.

---

**ALFALFA AGRONOMICS CHART**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FALL DORMANCY</th>
<th>BACTERIAL WILT</th>
<th>VERTICILLIUM WILT</th>
<th>FUSARIUM WILT</th>
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</thead>
<tbody>
<tr>
<td>SHOCKWAVE BR</td>
<td>4</td>
<td>HR</td>
<td>HR</td>
<td>HR</td>
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<tr>
<td>STOCKPILE</td>
<td>4</td>
<td>HR</td>
<td>HR</td>
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</tbody>
</table>
**All-Vantage® Advanced Seed Treatment**


**Superior polymer, Adhere™ 108, uniform coverage.**

Same seeding rate as conventionally treated seed.

---

**AquaBond™ Seed Enhancement Package**

Two-part seed coating and treatment package.

**Long-lasting water-absorbing polymer.** Absorbs 200 times its weight in water. Bonds to available water and releases it to seed as needed. Improves germination & seedling growth during dry spells. Non-toxic, safe and economical to use.


Unmatched weed control at stand establishment and in established stands • Less weeds higher quality hay and haylage • Superior crop safety with the Roundup Ready® system provides increased yield potential in establishment and subsequent years • Flexibility in timing of application with no crop rotation restrictions

Do not export Genuity® Roundup Ready® Alfalfa seed or crop, including hay or hay products, to China pending import approval. In addition, due to the unique cropping practices do not plant Genuity® Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Monsanto grants express permission for such planting.

**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. Commercialized 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. 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.

**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 Design®, Genuity Icons, Genuity®, Roundup Ready® and Roundup® are trademarks of Monsanto Technology LLC.

---

**Disease Key:**  HR (Highly Resistant) • R (Resistant) • S (Susceptible) • NR (No Rating)

<table>
<thead>
<tr>
<th>ANTHRACNOSE</th>
<th>APHANOMYCES RACE 1</th>
<th>APHANOMYCES RACE 2</th>
<th>POTATO LEAFHOPPER</th>
<th>PHYTOPHTHORA ROOT ROT</th>
<th>WINTERHARDINESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR</td>
<td>HR</td>
<td>R</td>
<td>-</td>
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<tr>
<td>HR</td>
<td>HR</td>
<td>R</td>
<td>-</td>
<td>HR</td>
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</tbody>
</table>
Alfalfa

**FSG 329**  
Fall Dormancy 3  
Farm Science Genetics®. Excellent forage yield potential and quality. High multi-foliate leaf expression. High resistance to all major alfalfa diseases. Persistent and widely adapted. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 408DP**  
Fall Dormancy 4  
Farm Science Genetics®. DUAL PURPOSE, hay production or grazing. Wide, deep-set crowns help insulate from severe weather, wheel traffic and grazing. Superior winterhardiness and persistence. High hay yield potential with good forage quality, insect and disease resistant. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 415BR**  
Fall Dormancy 4  
Farm Science Genetics®. BRANCH ROOT variety with an excellent disease package. High yield and quality potential on both wet and well drained soils. Offers flexibility on less than ideal soil conditions. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 420LH**  
Fall Dormancy 4  
Farm Science Genetics®. Very high resistance to POTATO LEAFHOPPER. Highly resistant to major alfalfa diseases. Excellent yield potential and forage quality. Excellent winterhardiness. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 426**  
Fall Dormancy 4  

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**ALFALFA AGRONOMICS CHART**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FALL DORMANCY</th>
<th>BACTERIAL WILT</th>
<th>VERTICILLIUM WILT</th>
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</table>

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**Disease Key**

- R: Resistant
- HR: High Resistance
- H: High
- R: Resistant
**FSG 428RR  Fall Dormancy 4**

Farm Science Genetics®. Genuity® Roundup Ready® Alfalfa. The newest genetics are now available with Roundup resistance. High resistance to Aphanomyces Race 1 and 2. Ability to produce weed free hay. Well-adapted to wide range of soil types, environmental conditions and management programs. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 430RRLH  Fall Dormancy 4**

Farm Science Genetics®. Genuity® Roundup Ready® Alfalfa. The newest genetics are now available with Roundup resistance combined with very high resistance to POTATO LEAFHOPPER. Excellent disease package and winterhardiness provides ability to produce weed free hay. 3-4 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**FSG 440HVXRR  Fall Dormancy 4**

440HVXRR is the industry’s first genetically enhanced alfalfa technology developed to maximize quality compared to conventional alfalfa at the same stage of maturity, by reducing the amount of lignin in the plant. HarvXtra™ technology provides unprecedented flexibility by widening cutting windows giving growers the ability to better manage the yield-versus-quality tradeoff. Genuity® Roundup Ready® Alfalfa.

**FSG 524  Fall Dormancy 5**


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**Key: HR (Highly Resistant) • R (Resistant) • S (Susceptible) • NR (No Rating)**

<table>
<thead>
<tr>
<th>Incidence</th>
<th>Aphanomyces Race 1</th>
<th>Aphanomyces Race 2</th>
<th>Potato Leafhopper</th>
<th>Phytophthora Root Rot</th>
<th>Winterhardiness</th>
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<td>-</td>
<td>HR</td>
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</tbody>
</table>
Alfalfa

**WL 354HQ**  
Fall Dormancy 4

“HQ” High Quality Selected for forage quality and feed value. Very high yield potential with outstanding pest resistance, including high resistance to Aphanomyces Root Rot Race 2 make this the preferred choice for tough soils. Proven ability to produce higher quality with less risk of harvesting low-quality alfalfa when harvest window is delayed. 3-5 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**WL 363HQ**  
Fall Dormancy 5

“HQ” High Quality Selected for forage quality and feed value. Very high yield potential. Superior digestibility for more milk or beef cattle. Very winter-hardy, delivering long stand-life, even under the toughest conditions. Proven ability to “hold” high feed value in the field over a long period of time. Outstanding disease resistance and fast recovery after cutting. Highly palatable. 4-6 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**WL 365HQ**  
Fall Dormancy 5

“HQ” High Quality Selected for forage quality and feed value. HQ forage-quality levels make an ideal variety for cash hay or dairy producers. WL 365HQ delivers fast recovery, quickly closing the canopy to outpace yield-robbing weeds. Very well adapted to the northeast. Highest-yielding winterhardy conventional HQ released to date. 4-6 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**WL 358LH**  
Fall Dormancy 4

Eighth-generation POTATO LEAFHOPPER resistance with HopperShield™ protection. Superb yield potential and agronomic performance with or without leafhopper pressure. Dark green, fine-stem and a highly digestible variety. 3-5 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

### AGRONOMICS CHART

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FALL DORMANCY</th>
<th>BACTERIAL WILT</th>
<th>VERTICILLIUM WILT</th>
<th>FUSARIAUM WILT</th>
<th>ANTHRACNOSE</th>
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<tr>
<td>WL 358LH</td>
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<td>WL 372HQ.RR</td>
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</table>
**WL 356HQ.RR**  
Fall Dormancy 4

“HQ” High Quality Selected for forage quality and feed value. Genuity® Roundup Ready® Alfalfa. Tolerance to Roundup® non-selective herbicide. Very high yielding. Unique wet soil disease resistance package. WL 356HQ.RR exhibits strong potential to deliver higher feed intake, improved milk production, and increase profitability when fed. 3-5 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**WL 359LH.RR**  
Fall Dormancy 4

Genuity® Roundup Ready® Alfalfa. Eighth-generation POTATO LEAFHOPPER resistance with HopperShield™ protection. Bred and selected for the Northeast. WL 359LH.RR, is an ideal pick for dairy, beef or cash hay growers looking for top yield and quality under PLH pressure. 3-5 cut management. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

**WL 372HQ.RR**  
Fall Dormancy 5

“HQ” High Quality Selected for forage quality and feed value. Genuity® Roundup Ready® Alfalfa. Tolerance to Roundup® non-selective herbicide. The highest-yielding RR FD5 released to date. WL 372HQ.RR demonstrates “HQ” forage quality levels that promote higher feed intake, improved milk production, and greater profitability when fed. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

The Gold Treatment Plus, Powered by Optimize® Gold PLUS. Available exclusively on W-L Genuity® Roundup Ready® Alfalfas.

Optimize® Gold Plus with Dual-LCO Promoter Technology™, a patented technology applied to the seed that promotes early season seedling vigor, enhanced root development, and improved stand establishment under adverse conditions. With Optimize® Gold Plus, the nodulation and nitrogen-fixation processes begin earlier, giving the young alfalfa seedling a boost and enhancing seeding-year yields and nutritional values. Optimize® Gold Plus is a natural biological molecule that works directly with the new alfalfa seedling to ensure better overall plant health.

| Resistance Key: HR (Highly Resistant) • R (Resistant) • S (Susceptible) • NR (No Rating) |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| **RACNOSE** | **APHANOMYCES RACE 1** | **APHANOMYCES RACE 2** | **POTATO LEAFHOPPER** | **PHYTOPHTHORA ROOT ROT** | **WINTERHARDINESS** |
| HR   | HR   | HR   | -    | HR   | 1.4    |
| HR   | HR   | HR   | -    | HR   | 1.6    |
| HR   | HR   | -    | HR   | HR   | 2.0    |
| HR   | HR   | -    | HR   | HR   | 2.2    |
| HR   | HR   | -    | -    | HR   | 1.6    |
| HR   | HR   | -    | -    | HR   | 1.1    |
| HR   | HR   | -    | -    | HR   | 1.8    |

![Image of alfalfa plants]
**Clover & Trefoil**

**CRUSADE** White Clover

Farm Science Genetics®. Improved winter regrowth. Extended grazing potential during colder months. Early and vigorous flowering. Disease resistance and strong regrowth after cutting. **Seed at 5-8 lbs. alone, 2 lbs. in mixes.**

**KOPU II** White Clover

Selected for stolen density and persistence under grazing and hay production. Exhibits superior yield and persistence over Alice. University of Wisconsin trials yielded 22% better than CA ladino. **Seed at 5-8 lbs. alone, 2 lbs. in mixes.**

**FIXATION** Balansa Clover

FIXatioN will aggressively produce forage in the spring - early summer months. Well established fields are capable of withstanding multiple cuttings/grazings. Attracts beneficial insects and pollinators. Produces high dry matter yields. Performs well in mixes with other cover crops.

**PINNACLE** Ladino Clover

Farm Science Genetics®. High yield potential. Excellent seedling vigor and stolen activity. Resists leaf diseases and field viruses. Superior persistence. Drought tolerant, widely adapted, ideal for pastures. **Seed at 5-8 lbs. alone, 2 lbs. in mixes.**

**JUMBO II** Ladino Clover

Ladino-type that is more vigorous and recovers faster than most other white clovers. Improved disease resistance. Characterized by large leaves; up to 3” in ideal conditions. Persists under grazing and hay production and on limited resource soils. **Seed at 5-8 lbs. alone, 2 lbs. in mixes.**

---

**AGRONOMICS CHART**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MATURITY</th>
<th>CUTTING MANAGEMENT</th>
<th>YIELD POTENTIAL</th>
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<tr>
<td>CRUSADE White Clover</td>
<td>MEDIUM</td>
<td>MULTIPLE</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>KOPU II White Clover</td>
<td>MEDIUM</td>
<td>MULTIPLE</td>
<td>HIGH</td>
</tr>
<tr>
<td>FIXATION Balansa Clover</td>
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<td>MULTIPLE</td>
<td>HIGH</td>
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<tr>
<td>PINNACLE Ladino Clover</td>
<td>MEDIUM</td>
<td>MULTIPLE</td>
<td>HIGH</td>
</tr>
<tr>
<td>JUMBO II Ladino Clover</td>
<td>MEDIUM - LATE</td>
<td>MULTIPLE</td>
<td>HIGH</td>
</tr>
<tr>
<td>FSG 402 Red Clover</td>
<td>MEDIUM</td>
<td>1 - 2</td>
<td>VERY HIGH</td>
</tr>
<tr>
<td>WILDCAT Red Clover</td>
<td>MEDIUM</td>
<td>1 - 2</td>
<td>HIGH</td>
</tr>
<tr>
<td>PARDEE Trefoil</td>
<td>EARLY - MEDIUM</td>
<td>1 - 2</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>ALSIKE Clover</td>
<td>EARLY - MEDIUM</td>
<td>1</td>
<td>-</td>
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<tr>
<td>MAMMOTH Clover</td>
<td>EARLY</td>
<td>1</td>
<td>AVERAGE</td>
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</table>
**FSG 402 Red Clover**
Farm Science Genetics®. High yield potential, unmatched forage quality, excellent disease resistance, superior persistence. Highly resistant to Northern and Southern anthracnose and powdery mildew. Performs across wide geography and variable conditions. *Seed at 10-12 lbs. alone, 4-8 lbs. in mixes.*

**WILDCAT Red Clover**
Medium maturity, large-leaved, double-cut. Medium-green leaflets with white marking. Large amounts of forage during the season. Excellent winterhardiness and drought tolerance. Very good rotational grazing. *Seed at 10-12 lbs. alone, 4-8 lbs. in mixes.*

**PARDEE Trefoil**
Farm Science Genetics®. Outstanding yield potential, persistence and resistance to fusarium wilt. Earlier than Norcen and Viking, upright, vigorous-growing hay type. Good for long term rotations and may have a place in snout beetle infested areas where alfalfa will not survive. Cut no lower than 5” to ensure good stand health. Trefoil persists in soils that may not maintain stands of other legumes. *Seed at 8-10 lbs. alone, 2-8 lbs. in mixes.*

<table>
<thead>
<tr>
<th>HAY HAYLAGE</th>
<th>PASTURE</th>
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<tr>
<td>-</td>
<td>YES</td>
<td>Extended grazing in colder months - disease resistant</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Excellent For Grazing and High Yields</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Cool Season Annual Legume</td>
</tr>
<tr>
<td>-</td>
<td>YES</td>
<td>Excellent seedling vigor with good stolen growth</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>A very wide leaf with high yields</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>High resistance to Northern and Southern Anthracnose</td>
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<tr>
<td>YES</td>
<td>YES</td>
<td>Powdery Mildew + Northern Anthracnose Resistance</td>
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<tr>
<td>YES</td>
<td>YES</td>
<td>Fusarium Wilt resistant. Upright hay type</td>
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<tr>
<td>-</td>
<td>-</td>
<td>DO NOT USE FOR HORSES</td>
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</tbody>
</table>

**AVERAGE**
**AVERAGE**
**Single-Cut**

---
SADDLEBRED BRAND  Timothy
Saddlebred Timothy is a variety selected for it’s earlier maturing characteristics. It is well suited for the farmer looking for the many advantages of Climax, but would like earlier maturity. Saddlebred has been bred in competition with other grasses and legumes, and, therefore, makes it reliable in all grass mixtures. Saddlebred, in dry matter yield tests have out yielded other timothy varieties, including Climax, by 5-10%. Saddlebred is highly resistant to leaf rust, leaf spot and purple eyespot. Seed at 8-10 lbs. alone, 4-6 lbs. in mixes.

SUMMIT  Timothy
Farm Science Genetics®. Superior for hay or grazing. Early maturing, leafy, great palatability, improved summer regrowth. Works well in pure stands or with legumes. Excellent spring vigor. Winter hardy. Seed at 8-10 lbs. alone, 4-6 lbs. in mixes.

CREST  Timothy
Farm Science Genetics®. Medium-late maturity. Significant forage yield advantage over Climax. Excellent spring vigor and plant health. Strong summer regrowth after cutting. Very winter-hardy and palatable. Excellent with legumes or where later hay harvests occur due to wet soil conditions. Seed at 8-10 lbs. alone, 4-6 lbs. in mixes.

COMTAL  Timothy
Late maturing cultivar that has been selected for yield and persistence. Tolerant of adverse conditions and works well in a single or double cut hay situation. Useful for managing cutting schedules, with heading date 2-3 days after Climax, it enables you to maintain higher quality in later harvests. Seed at 8-10 lbs. alone, 4-6 lbs. in mixes.
**PEAK/YORK**  Bromegrass

Peak is Cornell University developed. Earlier maturity and higher yield potential than Saratoga. High forage yield especially after first cut. York is Cornell developed for yield, winter hardiness, improved drought tolerance, smaller seed size. Improved forage quality, producing fewer heads. Leave a 4” stubble for best regrowth. *Seed at 15-20 lbs. alone, 3-8 lbs. in mixes.*

**AC® SUCCESS**  Hybrid Bromegrass

Hybrid of smooth brome and meadow brome. Looks more like smooth brome with excellent regrowth and better yield than meadow brome. Very productive and palatable. Excellent persistence and winterhardiness. Improved forage quality, great alfalfa companion. Can pasture. Not as invasive as smooth brome. Lower flooding tolerance, moderately tolerant to acidic soils. *Seed at 9-12 lbs. alone, 4-6 lbs. in mixes.*

**MACBETH**  Meadow Bromegrass

Dual-purpose for hay or pasture with yield, rapid re-growth, forage quality and color retention. Grows earlier in the spring and longer in the fall. Compared to smooth brome, it has narrower leaves, better re-growth, more in-season production, and will not take over alfalfa or other grass stands because of bunching growth habit not creeping. *Seed at 12-14 lbs. alone, 6-8 lbs. in mixes.*

<table>
<thead>
<tr>
<th>HAY HAYLAGE</th>
<th>PASTURE</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>YES</td>
<td>Good Summer Regrowth</td>
</tr>
<tr>
<td>-</td>
<td>YES</td>
<td>Excellent Vigor</td>
</tr>
<tr>
<td>-</td>
<td>YES</td>
<td>Excellent Disease Resistance</td>
</tr>
<tr>
<td>YES</td>
<td>OK</td>
<td>Late Maturity Alfalfa Companion</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Recovers Quickly After First Cutting</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Tolerates Poor Soils</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Strong Summer Regrowth</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Tolerates Continuous Grazing</td>
</tr>
</tbody>
</table>
Orchardgrass & Ryegrass

**BOUNTY** Orchardgrass
Farm Science Genetics®. Early maturity and outstanding yield potential. Ideal for hay production or pastures. Excellent plant vigor, quick recovery after cutting and great palatability. Drought tolerance and stem rust resistance. Straight stands or grass and legume mixtures. EXCELLENT FOR GRAZING! Seed at 15-18 lbs. alone, 4-6 lbs. in mixes.

**PAWNEE** Orchardgrass
Farm Science Genetics®. Medium maturity variety developed for drought and grazing tolerance along with increased stem rust resistance and forage yield potential. Widely adapted with high grazing tolerance. Seed at 15-18 lbs. alone, 4-6 lbs. in mixes.

**EXTEND** Orchardgrass
Farm Science Genetics®. Late maturity with superior yield potential. Good maturity fit with alfalfa. Excellent plant vigor, increased stand persistence, drought tolerance, stem rust resistance and great palatability. Seed at 15-20 lbs. alone, 3-6 lbs. in mixes.

**SWF955** “Easy Sow Orchardgrass”
Farm Science Genetics®. Medium maturity. HULLED ORCHARDGRASS with the same characteristics as standard orchardgrass, but without the seed hulls, easier to mix with alfalfa or other seed. Best choice for air or hydro-seeding. Seed at 15-20 lbs. alone, 3-6 lbs. in mixes.

### Agronomics Chart

<table>
<thead>
<tr>
<th>Variety</th>
<th>Maturity</th>
<th>Cutting Management</th>
<th>Yield Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOUNTY Orchardgrass</td>
<td>EARLY</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>PAWNEE Orchardgrass</td>
<td>MEDIUM</td>
<td>2</td>
<td>HIGH</td>
</tr>
<tr>
<td>EXTEND Orchardgrass</td>
<td>LATE</td>
<td>2</td>
<td>HIGH</td>
</tr>
<tr>
<td>SWF955 Orchardgrass</td>
<td>MEDIUM</td>
<td>2</td>
<td>HIGH</td>
</tr>
<tr>
<td>TEKAPO Orchardgrass</td>
<td>MEDIUM</td>
<td>2</td>
<td>MEDIUM</td>
</tr>
<tr>
<td>PRINCE Brand Int. Ryegrass</td>
<td>EARLY-MEDIUM</td>
<td>2 - 3</td>
<td>MEDIUM - HIGH</td>
</tr>
<tr>
<td>BRAVE Brand Perennial Ryegrass</td>
<td>EARLY-MEDIUM</td>
<td>2 - 3</td>
<td>MEDIUM - HIGH</td>
</tr>
<tr>
<td>TETRASWEET Perennial Ryegrass</td>
<td>LATE</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>TETRAMAG Hybrid Ryegrass</td>
<td>LATE</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
</tbody>
</table>
**TEKAPO**  **Orchardgrass**

Unique orchardgrass that has a very low crown and a dense prostrate growth habit. Soft, highly palatable leaves and will persist even when grazed to near ground level, making it ideal for sheep and horse grazing. When growers plant TEKAPO, they are amazed by its performance and density. *Seed at 15-18 lbs alone, 4-6 lbs. in mixes.*

**BRAVE Brand**  **Perennial Ryegrass**

Farm Science Genetics®. High yield, medium-late maturing tetraploid, high sugar content for higher palatability and animal gain. Drought and heat tolerant. Milk yields and animal gains can be impressive, harvested or grazed. *Seed at 35-45 lbs alone, 10-15 lbs. in mixes.*

**TETRASWEEET**  **Perennial Ryegrass**

Highly palatable, fast establishing, tetraploid perennial rye. Tillers extensively, rapid recovery, excellent choice for all types of forage production. Can be grazed. High digestibility leads to increased animal performance and increased producer profits. *Seed at 35-45 lbs alone, 10-15 lbs. in mixes.*

**TETRAMAG**  **Hybrid Ryegrass**

Excellent yield potential and stand-life expectancy of 3-5 years. Highest ranking entry in Cornell University and University of Kentucky forage trials. This yield potential is in part to TetraMag’s unparalleled seedling vigor. Improved forage quality and continues to produce all season long. *Seed at 35-45 lbs alone, 10-15 lbs. in mixes.*

### Hay Haylage Pasture Comment

<table>
<thead>
<tr>
<th>HAY</th>
<th>HAYLAGE</th>
<th>PASTURE</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Quick Recovery After Cutting</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>High Grazing Tolerance</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Late Maturity Alfalfa Companion</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Hulled for planting ease</td>
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<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Developed For Intense Grazing</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Superior Mid-Summer Yield Potential For Ryegrass</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Endophyte Free</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Fast Establishment</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>Hybrid Lasting 3-5 Years</td>
</tr>
</tbody>
</table>
**Ryegrass & Forage Grasses**

**TETRAPRIME**  
**Italian Ryegrass**  
Selected for grazing applications, TetraPrime has excellent grazing tolerance and can be grazed close without jeopardizing the integrity of the field. This close-graze ability allows for total forage usage. Excellent drought tolerance and improved winterhardiness.

**FRIA**  
**Annual Ryegrass**  
Farm Science Genetics®. Endophyte-free ANNUAL diploid. Late maturity with superior cold tolerance and excellent palatability. Improved resistance to crown rust, gray leaf spot and helminthosporium leaf spot.

**FLOURISH**  
**Tall Fescue**  
Farm Science Genetics®. Fast regrowth, excellent yield and forage quality. Mid-late maturing, use alone or with grasses and legumes for high quality hay, ensilage, or pasture. Low endophyte levels make it palatable for animals. *Seed at 25-40 lbs. alone, 4-12 lbs. in mixes.*

**TETON**  
**Tall Fescue**  
Teton is a fast establishing, exceptionally high yielding, medium maturing, soft leaf tall fescue that is an upright variety with a broad-crown, very resistant to diseases. Teton is well adapted for hay and pasture production and shows excellent persistence. Teton is endophyte free. Teton is best suited to high fertility and heavy soils and can withstand acid, alkaline as well as poorly drained soils. Best growth is achieved during spring and fall seasons, with moderate growth during the summer season.

**AGRONOMICS CHART**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MATURITY</th>
<th>CUTTING MANAGEMENT</th>
<th>YIELD POTENTIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRIA Annual Ryegrass</td>
<td>LATE</td>
<td>3 - 4</td>
<td>MEDIUM - HIGH</td>
</tr>
<tr>
<td>TETRAPRIME Ital. Ryegrass</td>
<td>EARLY</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>TETILIA Short Rotation Ital. Ryegrass</td>
<td>LATE</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>TETON Tall Fescue</td>
<td>MEDIUM</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>FLOURISH Tall Fescue</td>
<td>MEDIUM-LATE</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>PREVAL Meadow Fescue</td>
<td>MEDIUM</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>GAIN Festulolium</td>
<td>EARLY-MEDIUM</td>
<td>2 - 3</td>
<td>MEDIUM - HIGH</td>
</tr>
<tr>
<td>DUO Festulolium</td>
<td>MEDIUM</td>
<td>2 - 3</td>
<td>HIGH</td>
</tr>
<tr>
<td>RIVAL/BELLEVUE</td>
<td>LATE</td>
<td>1 - 2</td>
<td>VERY HIGH</td>
</tr>
</tbody>
</table>
PREVAL Meadow Fescue
Use in forage blends to improve summer productivity for grazing or hay. Medium-maturity. Excellent palatability and digestibility. Excellent for rotational grazing. High yield with wide, succulent leaves. Good regrowth. Tolerates wet soil and close grazing. Seed at 35-45 lbs. alone, 10-15 lbs. in mixes.

GAIN Festulolium

DUO Festulolium
Cross of tetraploid perennial ryegrass and meadow fescue. Looks, digests and is palatable like ryegrass, but heartier. Better tolerates intense summer heat and winter’s frigid cold. Like ryegrass, only better! Seed at 25-40 lbs. alone, 2-20 lbs. in mixes.

RIVAL/BELLEVUE canarygrass
High yields, improved palatability and very low alkaloid content. Promotes better intake and greater weight gains over common reed canarygrass. Excellent for wet + dry ground with superior performance over older varieties. Will utilize repeated manure applications throughout the growing season. Seed at 12-15 lbs. alone, 4-8 lbs. in mixes.

<table>
<thead>
<tr>
<th>HAY HAYLAGE</th>
<th>PASTURE</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>Endophyte Free</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Short Rotation Grass</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Short Rotation Grass</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Endophyte Free</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Endophyte - Safe</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Tolerates Wet Soils</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Rapid Establishment - Good Companion</td>
</tr>
<tr>
<td>YES</td>
<td>YES</td>
<td>Good Drought Tolerance and Winterhardiness</td>
</tr>
<tr>
<td>YES</td>
<td>OK</td>
<td>Alkaloid Free</td>
</tr>
</tbody>
</table>
**Forage & Pasture Mixes**

### SEEDWAY 100 - Long Term Stands (20 lb/acre)
- 90% Premium High Yielding Alfalfa
- 10% Endophyte-Free Forage Tall Fescue

### SEEDWAY 150 - Premium Forage (20 lb/acre)
- 85% Premium High Yielding Alfalfa
- 15% Premium Timothy Variety

### SEEDWAY 300 - Lowland Mix (20 lb/acre)
- 35% Premium Trefoil
- 30% Premium Timothy Variety
- 15% Premium Red Clover
- 10% Forage Perennial Ryegrass
- 10% Festulolium

### SEEDWAY 350 - Haymaster Mix (30 lb/acre)
- 35% Premium Tall Fescue
- 30% Premium Orchardgrass
- 15% Red Clover
- 10% Perennial Ryegrass
- 10% Festulolium

### SEEDWAY 500 - Renovator Mix (20-30 lb/acre)
- 35% Festulolium
- 35% Forage Perennial Ryegrass
- 15% Annual Ryegrass
- 15% Proprietary Red Clover

### SEEDWAY 550 - Grass/Hay Mix (30 lb/acre)
- 40% Endophyte-Free Forage Tall Fescue
- 30% Premium Orchardgrass
- 20% Festulolium
- 10% Late Maturing Timothy

### TAR - Economy Mix (15 lb/acre) *
- 50% Timothy
- 30% Medium Red Clover
- 20% Alsike/White Clover

*WARNING* TAR MIX NO 1 contains Alsike clover, which has been associated with certain metabolic disorders in horses. **DO NOT** pasture horses in fields seeded with this mixture or any mixture containing Alsike.

### ALFA-SOW™
FSG 426 Alfalfa and Extend Hulled Orchardgrass Mix
(90% FSG 426 Alfalfa • 10% Extend Orchardgrass)

FSG 426 alfalfa and Extend “Easy Sow” hulled orchardgrass makes the perfect blend for your high production hay acres. These varieties will help ensure the perfect blend that will not bridge in your drill like regular orchardgrass. Don’t waste your time blending your seed at the planter or worrying about two separate seed boxes - **JUST FILL YOUR SEED BOX AND SOW YOUR FIELDS**!

FSG 426 alfalfa is treated with both All-Vantage™ and Aquabond™ to promote germination and stand establishment.

The varieties listed for forage and pasture mixes may be substituted with comparable varieties based on availability. Custom mixes are available with an additional mix charge for growers desiring specific varieties or different mix ratios.
SEEDWAY 200 - Variable Drainage (20 lb/acre)
50% SEEDWAY Premium Alfalfa Variety
30% Premium Timothy Variety
20% Pardee Trefoil

SEEDWAY 250 - Variable Soils (20 lb/acre)
65% SEEDWAY Premium Alfalfa Variety
25% Rival Bellevue Canarygrass
10% Premium Timothy Variety

SEEDWAY 400 - Clover Mix (18 lb/acre)
60% FSG 402 Red Clover
40% Premium Timothy Variety

SEEDWAY 450 - Value Mix (18 lb/acre)
50% Alfalfa
35% Climax Timothy
15% Medium Red Clover

ULTIMATE GRAZER - Pasture Mix (25 lb/acre)
Mixture designed for the intense grazer. Provides high forage quality and digestibility. If you need to increase milk pounds or body weight...this one will satisfy your needs!
35% Tekapo Orchardgrass • 30% Duo Festulolium • 25% Brave Perennial Ryegrass • 5% Kopu II White Clover • 5% Improved Red Clover

PRO HORSE - Pasture Mix (25 lb/acre)
Farm Science Genetics®. Formulated to meet the special needs of horses, while withstanding intense grazing pressure.
40% Perennial Ryegrass • 20% Timothy • 20% Orchardgrass • 12% Kentucky Bluegrass • 8% Ladino White Clover

PRO DAIRY - Pasture Mix (25 lb/acre)
Farm Science Genetics®. Maximize the performance of dairy cattle. Grasses and clover provide yield, nutrition, stand persistence and disease resistance.
25% Orchardgrass • 20% Perennial Ryegrass • 15% Festulolium • 15% Timothy • 10% Branch Root Alfalfa • 10% Red Clover • 5% Ladino White Clover

PRO BEEF - Pasture Mix (25 lb/acre)
Farm Science Genetics®. Maximize beef animal per acre return. High quality ingredients blended in the proper rations.
40% Tall Fescue • 23% Orchardgrass • 10% Intermediate Ryegrass • 10% Perennial Ryegrass • 6% Timothy • 6% Red Clover • 5% Ladino White Clover

SucraSEED™ CASH COW High Sugar Pasture Mix
High sugar grass mixture formulated for dairy cows. High quality ingredients provide the potential for higher animal intake and increase milk per cow over the grazing season. Improved digestibility. Seed at 25 lbs. per acre.

SucraSEED™ BEEF BANK High Sugar Pasture Mix
High sugar mixture designed for beef cattle. Improved weight gain and intake potential. Better palatability and digestibility. Seed at 25 lbs. per acre.

SucraSEED™ ULTRA SWEET HSG Ryegrass Blend
High-sugar grass (HSG) mixture for silage and haylage. High levels of sugar provide bacteria with greater energy source translating to faster and better conversion of freshly harvested plant material to highly digestible silage or haylage. More sugar provides the grasses extra energy for quick re-growth after cutting and the aggressiveness to crowd-out weeds. HSG’s are proven to increase livestock yields.
Annual Forages & Grain Sorghum

**FSG 214 BM R 6  50-55 Day - Dry Stalk Hybrid Sorghum - Sudan**

Farm Science Genetics®. Produces high tillering, high quality forage with excellent early vigor. The high leaf-to-stem ratio equals high protein. Digestibility has been increased by 20% due to the BMR 6 trait. Dry stalk gene allows for more timely harvest and helps get the crop baled and out of the field quickly. Typically used in a rotational grazing or 1-3 cutting systems allowing you to produce the maximum amount of forage. **Seed at 35-50 lbs. per acre.**

**FSG 215 BM R 6  50-55 Day - Brachytic Dwarf Forage Sorghum - Sudan**

Farm Science Genetics®. Dwarfing gene increases leaf to stem ratio and provides superior standability. Significantly lower stem lignin concentration. Improved digestibility & palatability equals milk production of corn. Grain producing hybrid. **Seed at 4-8 lbs. per acre.**

**SSG 886 BM R6  Leafy BM R6 Hybrid Sudangrass**

SSG 886BM R6 is a BMR 6 Hybrid Sudangrass. The BMR 6 gene added to a sudangrass hybrid adds the high quality to a plant that has fine stems and quick regrowth. This hybrid will have fast dry down so it can be used in areas that have trouble putting sorghum sudan up as dry hay. **Seed at 25-30 lbs. per acre.**

**FSG 114 BM R 6  85 Day - Forage Sorghum**

Farm Science Genetics®. Dry stalk gene improves harvestibility timing. Significantly lower stem lignin concentration. Improves digestibility and palatability. Requires 1/3 less water than corn. Male sterile hybrid. **Seed at 7-11 lbs. per acre.**

**GREENGRAZER V  63-65 Day Hybrid Sorghum - Sudangrass**

Farm Science Genetics®. Small seeded three way cross with thin stems that are highly palatable. Very fast regrowth after cutting. Possesses the Green Top trait, which allows for further extension of the plant. Planting at higher populations will result in a finer stemmed forage. Finer stems will allow the forage to dry faster for higher quality hay than is possible with thick stemmed types. **Seed at 35-50 lbs. per acre.**

**COW VITTLES II 100 Day - Hybrid Forage Sorghum**

Farm Science Genetics®. Cowvittles II is a conventional hybrid forage sorghum with high yield potential. A dense lush leaf type with a large grain head, Cowvittles II sets the standard for forage sorghums. **Seed at 6-12 lbs. per acre.**

**Early planting is NOT an option with sorghum and sorghum x sudan products. They must be planted in warm soils. May 20 is the absolute earliest after soils are warm. Also observe sorghum / sudan feed warnings to prevent Prussic Acid Poisoning.**

(1) Avoid large nitrogen applications prior to expected drought periods.
(2) 2, 4-D increases Prussic Acids for several weeks after application.
(3) Do not harvest drought damaged plants within 4 days of good rain.
(4) Allow at least 7 days killing frost before chopping.
(5) Cut at higher stubble height, nitrates accumulate in the lower stalks.
(6) Wait 6 weeks after ensiling to allow Prussic Acid to dissipate.
FSG 255C  54-58 Day - Grain Sorghum
Farm Science Genetics®. FSG 255C is widely adaptable north to south across extraneous soil types and conditions of the medium-early maturity zones. Exceptional stress tolerance allows for dependable yield performance under adverse conditions. Good emergence score and early vigor help FSG 255C get a fast start in spring. Cream colored grain.

FSG 425  62-65 Day - Hybrid Grain Sorghum
Farm Science Genetics®. FSG 425 is widely adapted from north to south across soil types and environmental conditions. Good emergence and early vigor help FSG 425 get off to a fast start, while unmatched stress tolerance allows for dependable yield performance under adverse conditions. If you need a medium maturity hybrid with high yield potential, FSG 425 is the variety to ask for. Red colored grain.

FSG 117  52-55 Day - Hybrid Grain Sorghum
Farm Science Genetics®. Widely adapted from north to south across soil types and environmental conditions. Good emergence and early vigor help FSG 117 get off to a fast start, while exceptional stress tolerance allows for dependable yield performance under adverse conditions. If you need a early maturity hybrid with high yield potential, FSG 117 is the variety to ask for. Red colored grain.

TRI-MAX BLEND  Forage Mixture
This blend consists of Maxum forage peas, Forage Plus forage oats and Hays barley. TRI-MAX is truly superior, producing higher yields with more energy and higher digestibility than other companion crops. This blend will tolerate more heat than pea/triticale mixes, however, optimum performance is still achieved with earlier planting. *Seed at 80-120 lbs. per acre.*

SPRINT MAXX BLEND  Forage Mixture
Sprint Maxx is a forage blend of Haywire Brand Oats and Stockade Brand Peas. It produces high yields of high quality forage in dairy and beef areas throughout the Northern United States. Sprint-Maxx provides a quick source of forages within 60 days of planting and can be used as companion crop to establish alfalfa or it can follow winter wheat if planted within the first 2 weeks of August. *Seed at 80-120 lbs. per acre.*

SkyHi™ Forage Oat
SkyHi forage oats are a true forage variety that has wide leaves and produces high quality forage. Although it is leafy, it’s also a tall and erect plant, averaging more leaves per stem.
Cover Crops and Mixtures

**INCREASE THE VALUE OF YOUR LAND**

**CSG SW-PR - 25 lbs. per acre**

- **80% Austrian Winter Pea**
- **20% Eco-Till™ Radish**
  - Rapid establishment to prevent wind and water erosion.
  - Fixes atmospheric nitrogen to increase soil nitrogen levels.
  - Improves soil permeability for increased air and water penetration, reduces soil compaction, and increases root development potential.
  - Recycles nutrients that would have been lost to leaching or runoff.
  - Potential forage for fall grazing.

**CSG SW-RyR - 25 lbs. per acre**

- **80% Fria Annual Ryegrass**
- **20% Eco-Till™ Radish**
  - Improves soil permeability for increased air and water penetration, reduces soil compaction, and increases root development potential.
  - Recycles nutrients that would have been lost to leaching or runoff.
  - Holds surface soil in place.
  - Improves soil tilth which can benefit any crop that follows.
  - Potential forage production for fall grazing.

**CSG SW-TCR - 50 lbs. per acre**

- **80% Triticale**
- **10% Crimson Clover**
- **10% Eco-Till™ Radish**
  - Rapid establishment to prevent wind and water erosion.
  - Recycles nutrients that would have been lost to leaching or runoff.
  - Fixes atmospheric nitrogen to increase soil nitrogen levels.
  - Improves soil permeability for increased air and water penetration, reduces soil compaction and increases root development potential.
  - Best used prior to corn, wheat or other crops requiring significant nitrogen inputs.
  - Potential forage for fall and spring grazing, spring silage or hay.

**CSG SW-POR - 50 lbs. per acre**

- **50% Austrian Winter Peas**
- **40% Jerry Oats**
- **10% Eco-Till™ Radish**
  - Rapid establishment to prevent wind and water erosion.
  - Improves soil permeability for increased air and water penetration, reduces soil compaction, and increases root development potential.
  - Recycles nutrients that would have been lost to leaching or runoff.
  - Fixes atmospheric nitrogen to increase soil nitrogen levels.
  - Potential forage for fall and spring grazing, spring silage or hay.

**CSG SW-RyC - 25 lbs. per acre**

- **60% Fria Annual Ryegrass**
- **40% Crimson Clover**
  - Rapid establishment to prevent wind and water erosion.
  - Improves soil permeability for increased air and water penetration, reduces soil compaction and increases root development potential.
  - Fixes atmospheric nitrogen to increase soil nitrogen levels.
  - Potential forage for fall and spring grazing, spring silage or hay.

**CSG SW-TRy - 100 lbs. per acre**

- **80% Triticale**
- **20% Fria Annual Ryegrass**
  - All grass mix.
  - Excellent forage for fall and spring grazing.
  - Improves soil tilth which can benefit any crop that follows.
  - Rapid establishment to prevent wind and water erosion.
**ECO-TILL™ Radish**

Conservation Science Genetics®. A true registered variety with superior deep penetrating tap root can reach up to 24” or more. Reduces soil compaction. Builds organic matter. Improves nutrient recycling. Enhances soil tilth with excellent weed suppression. Specifically developed for fall/winter cover crop application.

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**PURPLE BOUNTY Hairy Vetch**

Early maturing, winter-hardy, cover crop capable of fixing up to 50% of subsequent crop’s nitrogen needs. Increased biomass, thicker mulch, earlier flowering, flexibility in planting succeeding crop. Fall planted. **Seed at 20-25 lbs.** Plant with ECO-TILL™ radish for a two-phase approach to soil improvement and nitrogen fixation.

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**Bee Pollinator Mixtures**

**SW-Annual Pollinator Mix**

SW Annual Pollinator Mix is formulated to be a beneficial pollinator mix, but can be an excellent cover crop mix that will build the soil with nitrogen and organic matter. Since the mix is annual, timing is important for proper planting time and should be sown early enough to have bloom for the pollinator species. Spring planting or early fall is ideal. **Seed at 25-30 lbs. per acre.**

**Eastern Pollinator Mix**

Formulated for the eastern United States and southeast Canada where pollinator conservation is desired. Best times to plant are spring, early summer, and fall. **Seed at 11-22 lbs. per acre.**

**Monarch Butterfly Mix**

This mixture is composed of nectar producing flowers for adult butterflies as well as milkweed which will provide egg-laying sites and food for monarch caterpillars. Plant in spring, early summer, and fall. **Seed at 11-22 lbs. per acre.**
Silage Inoculants

**SiloSolve® MC** Bacterial Inoculant For Superior Fermentation and Microbial Control

Clostridia grows in wet silage when there is a lack of oxygen. Growth of clostridia leads to breakdown of protein and butyric-acid production. Silage with clostridia has a strong butyric-acid smell and elevated pH, which can reduce palatability. SiloSolve® MC contains three strains of lactic-acid bacteria. One patented strain reduces undesirable microorganisms such as clostridia. The others improve overall fermentation.

**SiloSolve® AS** Bacterial Inoculant For Aerobic Stability And Enhanced Fermentation

Most farmers experience silage heating, due largely to growth of yeast and mold. Good management, including proper compaction, reduces the heat. However, some crops, such as corn, heat more often than other crops. Yeast and mold are fungi that grow well in the presence of oxygen. Yeasts initiate the heating of silage and molds usually follow. Certain molds produce harmful mycotoxins. Mycotoxins may compromise production and animal health.

**SiloSolve® FC** Bacterial Inoculant For Rapid Fermentation And Aerobic Stability

Most farmers will recognize the challenges of silage management during feedout; Heating of silage largely due to the growth of yeast and mold is particularly problematic. In addition certain molds produce harmful mycotoxins. Mycotoxins may compromise production and health of animals. The risk of heating and loss of valuable nutrients may jeopardize milk production and could lead to a severe economic impact. SiloSolve™ FC provides aerobic stability after only 8 days of ensiling.

**Biomax® PRO** Bacterial Inoculant For Improved Preservation Of Corn Silage And Haylage

Biomax® Pro provides for a strong fermentation and reduction of spoilage microorganisms. Ideal for use on all crops across a broad range of moistures stored in variety of structures. Fast starter, strong finisher. Proven inhibition of 5 yeasts + 2 molds. Excellent dry matter retention.

**The Nutrient Scorecard™** We Have A New Program. And You Can Profit From It.

The difference between a dairy operation and a smarter dairy farm operation is often the ability to collect and analyze data - and act on insights. Chr. Hansen has the tools to help you get the most out of data analysis so you can improve starch and fiber digestion, minimize forage loss, and increase bottom line profitability. We call it The Nutrient Scorecard™. The program give farmers a scientific scorecard summary of the status of their silage and their herd’s nutritional performance, along with recommendations for improving milk production and herd digestion. With The Nutrient Scorecard™, you will know the score. The Nutrient Scorecard™ can identify specific problems. It gives you the data and insights you need to make measurable improvements in you operations.
Notes
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