**Farm Science Genetics® ALFALFA**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FALL DORMANCY</th>
<th>BACTERIAL WILT</th>
<th>VERTICILLIUM WILT</th>
<th>FUSARIIUM WILT</th>
<th>ANTHRACNOSE</th>
<th>PHYTOPHTHORA ROOT ROT</th>
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<td>EZRA</td>
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</table>

**EZRA • Alfalfa**

*Farm Science Genetics®*. Developed by Cornell University. Stable, reliable, work horse variety with dependable yield and forage quality. Persistent with good disease resistance. Root regeneration capacity provides flexibility to tolerate wetter soils.

*Fall dormancy 3. 3-4 cut management.*

**REGEN • Alfalfa**

*Farm Science Genetics®*. Developed by Cornell University. Superior adaptation to variable Northeast soils and climates. Good seedling vigor with consistent high yield potential. High forage quality with lower overall NDF. Ability to develop new branch roots following damage or stress to the main tap root from wheel traffic, weather, insects and disease. Excellent winter hardiness.

*Fall dormancy 3, 3-4 cut management.*

**N-R-Gee • Alfalfa**

*Farm Science Genetics®*. Developed by Cornell University for higher fiber digestibility and elevated pectin for more energy in higher producing herds. Root regeneration with good disease resistance. *Fall dormancy 4, 3-4 cut.*

**FSG 329 • Alfalfa**


**FSG 403LR • Alfalfa**

*Farm Science Genetics®*. Lodging resistant variety with excellent spring vigor, great seedling vigor, and outstanding yield potential. These traits combined with superior disease resistance package.

*Fall dormancy 3, 3-4 cut management.*
Farm Science Genetics®. Dual Purpose, hay production or grazing. Wide, deep-set crowns help insulate from severe weather, wheel traffic and grazing. Superior winter hardiness and persistence. High hay yield potential with good forage quality, insect/disease resistant. *Fall dormancy 4, 3-4 cut management.*

Farm Science Genetics®. Very high resistance to Potato Leafhopper. Highly resistant to major alfalfa diseases. Excellent yield potential, forage quality. Excellent winter hardiness. *Fall dormancy 3, 3-4 cut.*


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. *Fall dormancy 4, 3-4 cut management.*


**All-Vantage® Advanced Seed Treatment**

Benefits seed germination and stand establishment.
Maintains high rhizobium numbers next to the seed.
Maximizes performance of the seed treatment.
Reduced dust-off. Complete safety in handling.
Improves seed flowability. Glowing gold color.
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.
Nutri-Start™ micronutrient package. Aids germination and emergence.
Manganese: photosynthesis, respiration, N metabolism.
Zinc: growth activation, enhances plant's natural defense.
Iron: chlorophyll formation, catalyst for other nutrients.
Cobalt: essential for rhizobia growth.
Copper: chlorophyll synthesis, carbohydrate and protein metabolism, respiration.
Molybdenum: nodulation for nitrogen fixation and protein synthesis.
Boron: root development, water relations, protein synthesis.
Adhere™ 108 polymer ensures treatment stays on seed.
SHOCKWAVE BR combines a branch rooted trait with excellent disease resistance to deliver outstanding performance. Performs better in higher water tables. High forage yield make it a productive variety in both normal and wetter conditions. Fall dormancy 4, 3-4 cut management.

STOCKPILE is a true leader when it comes to performance. With its excellent quality, persistence and disease resistance package combined with consistent top yields, Stockpile is an excellent choice for growers who demand the most out of their alfalfa crop. Fall dormancy 4, 3-4 cut management.

GALAXY 100 is an economical blend of alfalfa that will exhibit average yields, disease resistance and persistence in the field. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

GALAXY 200 is a premium blend of proprietary alfalfas that has the All-Vantage™ treatment for maximum performance. The blend showed exhibit increased yields, better disease resistance, and persistence in the field. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

Visit SEEDWAY Online at www.seedway.com

Hall, NY • 800-836-3710
Shoreham, VT • 888-863-9099
Mifflinburg, PA • 800-338-2137
Emmaus, PA • 800-225-4131
WL 352LH.RR • Alfalfa

Genuity® Roundup Ready® Alfalfa. Tolerance to Roundup® non-selective herbicide and leafhopper resistant. High yield potential under 3, 4, 5-cut harvest management. HopperShield™ protection can deliver dramatic increases in yield and quality under severe leafhopper pressure. Fall dormancy 4. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.


“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. Dark-green, fine-stem, highly digestible, recovers very fast after cutting with impressive winter hardiness. Fall dormancy 3.9. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

WL 353LH • Alfalfa

WL 354HQ • Alfalfa

WL 356HQ.RR • Alfalfa


“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. Fall dormancy 4.9. Seed at 18-20 lbs. alone, 8-12 lbs. in mixes.

WL 363HQ • Alfalfa

WL 372HQ.RR • Alfalfa


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.
<table>
<thead>
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<th>CLOVER - TREFOIL</th>
<th>MATURITY</th>
<th>CUTTING MANAGEMENT</th>
<th>YIELD POTENTIAL</th>
<th>HAY HAYLAGE</th>
<th>PASTURE</th>
<th>COMMENT</th>
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<td>FSG 9601 Red Clover</td>
<td>Medium</td>
<td>1 - 2</td>
<td>Very High</td>
<td>Yes</td>
<td>Yes</td>
<td>High resistance to Northern and Southern Anthracnose</td>
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<tr>
<td>FSG 402 Red Clover</td>
<td>Medium</td>
<td>1 - 2</td>
<td>Very High</td>
<td>Yes</td>
<td>Yes</td>
<td>High resistance to Northern and Southern Anthracnose; resistance to powdery mildew and black patch.</td>
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<tr>
<td>PINNACLE Ladino Clover</td>
<td>Medium</td>
<td>Multiple</td>
<td>High</td>
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<td>Yes</td>
<td>Excellent seedling vigor with good stolon growth</td>
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<tr>
<td>CRUSADE White Clover</td>
<td>Medium</td>
<td>Multiple</td>
<td>Medium</td>
<td>-</td>
<td>Yes</td>
<td>Extended grazing in colder months - disease resistant</td>
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<tr>
<td>PARDEE Trefoil</td>
<td>Early-Medium</td>
<td>1 - 2</td>
<td>Medium</td>
<td>Yes</td>
<td>Yes</td>
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<td>TIMOTHY</td>
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<td>SUMMIT</td>
<td>Early</td>
<td>2 - 3</td>
<td>High</td>
<td>-</td>
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<td>CREST</td>
<td>Medium-Late</td>
<td>2 - 3</td>
<td>High</td>
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<td>GLACIER</td>
<td>Early</td>
<td>3 - 4</td>
<td>High</td>
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<td>COMTAL</td>
<td>Late</td>
<td>1 - 2</td>
<td>Medium</td>
<td>Yes</td>
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<td>BROMEGRASS</td>
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<tr>
<td>PEAK/YORK</td>
<td>Early-Medium</td>
<td>1 - 2</td>
<td>High</td>
<td>Yes</td>
<td>Yes</td>
<td>Recovers quickly after first cutting</td>
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<td>MACBETH</td>
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<td>1 - 2</td>
<td>High</td>
<td>Yes</td>
<td>Yes</td>
<td>Strong summer growth</td>
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<td>ORCHARDGRASS</td>
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<td>BOUNTY</td>
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<td>2 - 3</td>
<td>High</td>
<td>Yes</td>
<td>Yes</td>
<td>Quick recovery after cutting</td>
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<td>SWF955 Easy Sow</td>
<td>Late</td>
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<td>Very Good</td>
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<tr>
<td>TALL FESCUE</td>
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<tr>
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<td>Med-Late</td>
<td>2 - 3</td>
<td>High</td>
<td>Yes</td>
<td>Yes</td>
<td>Low endophyte - safe</td>
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<td>2 - 3</td>
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<td>Yes</td>
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<td>DH3</td>
<td>Medium</td>
<td>3 - 4</td>
<td>Med - High</td>
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<td>FRIA</td>
<td>Late</td>
<td>3 - 4</td>
<td>Med - High</td>
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<td>Endophyte free</td>
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<td>BRAVE BRAND</td>
<td>Early-Medium</td>
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<td>Yes</td>
<td>Yes</td>
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<td>PRINCE BRAND</td>
<td>Early-Medium</td>
<td>2 - 3</td>
<td>Med - High</td>
<td>Yes</td>
<td>Yes</td>
<td>Superior mid-summer yield potential for ryegrass</td>
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**PARDEE** Trefoil

Farm Science Genetics®. Cornell University release named for professor of plant breeding, Dr. William “Bill” Pardee. 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 five inches to ensure good stand health.

**CRUSADE** White Clover

Farm Science Genetics®. Improved winter regrowth. Extended grazing potential during colder months. Early and vigorous flowering. Disease resistant and strong recovery after cutting.

**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 and at Penn State yielded 38% better under grazing. Seed at 5-8 lbs. alone, 2 lbs. in mixes.

**PINNACLE** Ladino Clover


**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 inches in ideal conditions. In Michigan trials, yielded 26% more than the average of 12 white clovers. Persists under grazing and hay production and on limited resource soils. Seed at 5-8 lbs. alone, 2 lbs. in mixes.

**FSG 9601 / FSG 402** Red Clover


**DYNAMITE** Red Clover

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

**MEDIUM** Red Clover

Short-lived perennial legume for two cuttings of hay per season. For short rotational hay programs with orchardgrass or timothy and frost seeded on winter grains to build soil organic matter. Seed at 10-12 lbs. alone, 4-8 lbs. in mixes.

**ALSIKE** Clover

Good for marginal soils. Frequently takes hold where other clovers fail, especially in low, wet soil or high gravel ground. **WARNING:** Not recommended for horses. Seed at 8-10 lbs. alone, 3-4 lbs. in mixes.

**MAMMOTH** Clover

Frequently used for seeding with timothy and cut as hay. Matures later than MEDIUM red clover. Produces a single, large cutting per year. Also used as a green manure for soil conditioning purposes. Seed at 10-12 lbs. alone, 4-8 lbs. in mixes.
Timothy CREST 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 and where later hay harvests occur due to wet soil conditions.

Timothy SUMMIT 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.

Timothy GLACIER Early maturity, exceptional yield and regrowth, 3-4 harvestable cuts per year. Matures 10 days earlier than Climax. Based on maturity and ability to persist under more intensive cutting. Works well with alfalfa. Seed at 8-10 lbs. alone, 4-6 lbs. in mixes.

Bromegrass PEAK / YORK 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.

Meadow Bromegrass MACBETH Dual-purpose for hay or pasture with yield, rapid re-growth, forage quality and color retention. Grows earlier in 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 bunches instead of creeps. Seed at 12-14 lbs. alone, 6-8 lbs. in mixes.

Hybrid Bromegrass AC® SUCCESS Hybrid of smooth brome and meadow brome. Looks more like smooth brome with excellent yield and better regrowth than meadow brome. Very productive and palatable. Excellent persistence and winter hardiness. Improved forage quality, great alfalfa companion. Can pasture. Not as invasive as smooth brome. Lower flooding tolerance, moderately tolerant to acidic soils.

Forage Bluegrass GINGER / TROY Bred for forage with wider, longer leaves than other varieties, greening-up earlier in the spring and withstanding grazing even under less than ideal conditions. Highly palatable, fills in the pasture with its aggressive rhizomes. Seed at 4-12 lbs. in mixes.

Forage Turnip APPIN Multiple grazings of high-quality forage. 6-10 growing points on deep set bulb allows better regrowth. Tops have tested as high as 30% protein, 340 RFV, and 94% digestible. Feeding additional fiber may be necessary. When grazing dairy cows allow adequate time between feeding and milking due to possible milk tainting. Seed at 5-8 lbs. alone, 2-4 lbs. in mixes.

Hybrid Brassica VIVANT Quick-growing, leafy brassica with minimal bulb development best suited to multiple grazings. Selected for late bolting and vigorous regrowth after grazing. High feed quality and digestibility for increased animal performance and producer profits.
Chicory

TFL 200

Excellent forage quality and palatability. Rapid germination and cold tolerance, excellent for fall planting. Slightly serrated leaves are more reddish than other chicory varieties. Rapid recovery after grazing or harvest, drought tolerance, excellent forage yield potential, excellent persistence with tolerance to Sclerotinia.

Orchardgrass

BOUNTY

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!

EXTEND

Farm Science Genetics®. Late maturity and superior yield potential. Good maturity fit with alfalfa. Excellent plant vigor, increased stand persistence, drought tolerance, stem rust resistance and great palatability. All-Vantage® treated. Use in pure stands or grass and legume mixtures. Available “Easy Sow” hulled, best choice for air or hydro-seeding. Seed at 15-20 lbs. alone, 3-6 lbs. in mixes.

SWF955 “Easy Sow”

Farm Science Genetics®. Hulled orchardgrass with the same characteristics as standard orchardgrass, but without the seed hulls, easier to mix with alfalfa or other seed. Medium maturity. Best choice for air or hydro-seeding.

PROFIT

Medium-late maturity bred for forage production. Impressive dry matter yield potential increasing profit opportunity. Can be used for hay production as well as beef, dairy and other production livestock pastures. Seed at 15-18 lbs alone, 4-6 lbs. in mixes.

TEKAPO

Unique orchardgrass with a very low crown and dense, prostrate growth habit. Soft, highly palatable leaves, persists even when grazed to near ground level, ideal for sheep and horse. Performance and density! Seed at 15-18 lbs alone, 4-6 lbs. in mixes.

Perennial Ryegrass

BRAVE Brand

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.

TETRA-SWEET

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.

Intermediate Ryegrass

PRINCE BRAND

### RYEGRASS and FORAGE GRASSES

<table>
<thead>
<tr>
<th>Variety</th>
<th>Description</th>
</tr>
</thead>
</table>
| **TETILIA** | Short Rotation Italian Ryegrass  
Late-maturing, very productive, profuse tillering, quick-growing, less sensitive to drought. Typically will not produce stems in the seeding year and has almost no re-heading in subsequent years. Good for grazing. *Seed at 25-40 lbs. alone, 2-20 lbs. in mixes.* |
| **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. |
| **DH3** | Annual Ryegrass  
Farm Science Genetics®. DH-3 perennial ryegrass exhibits high forage yield, excellent seedling vigor, and medium maturity, allowing consistency in forage yield throughout the season. |
| **ESTANCIA** | Tall Fescue  
Medium maturing, high-yield and excellent seedling vigor. Heat tolerance and persistence. Arkshield® provides better tolerance to environmental stress while not harming livestock or grazing animals. *Seed at 20-25 lbs. alone.* |
| **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 level makes it palatable for animals. |
| **GOLIATH** | Tall Fescue  
Endophyte-free with good rust resistance. Produces large amounts of lush forage. High nutritional value and good persistence. Excellent palatability and digestibility with drought and heat tolerance. *Seed at 25-40 lbs. alone, 4-12 lbs. in mixes.* |
| **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. |
| **GAIN** | Festulolium  
Farm Science Genetics®. Great yield potential, pasture or silage. Rapid establishment, vigorous growth, excellent with legumes or slower-starting grasses. Leafy, palatable, nutritious for all livestock and horses. Performs best on moist, fertile soils. Hybrid of Italian ryegrass and meadow fescue. |
| **DUO** | Festulolium  
Cross of tetraploid perennial ryegrass and meadow fescue. Looks, digests and is palatable like ryegrass, but heartier. Better tolerate 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 wetter ground with superior performance over current varieties. Will utilize repeated manure applications throughout the growing season. Seed at 12-15 lbs. alone, 4-8 lbs. in mixes. |
| **OVN** | Orchard-Vineyard-Nursery Mix  
For low maintenance areas. Slow regrowth after mowing and horizontal growth pattern. Very winter hardy and wear tolerant. Protect against soil erosion and suppresses weed growth. *Seed at 40-75 lbs. per acre.* |
Conservation Science Genetics™ is a progressive cover crop program developed to benefit growers by providing species and mixes that increase crop yields, break disease & pest cycles, reduce soil erosion, increase water infiltration and recycle valuable nutrients.

**CSG SW-RA**  Cover Crop Mixture

Conservation Science Genetics™. Rapid establishment to prevent wind and water erosion. Fixes atmospheric nitrogen to increase air and water penetration; reduces soil compaction and increases root development potential. Recycles nutrients that would have been lost to leaching or runoff.  **Seed at 25 lbs/acre.**

80% Austrian Winter Pea  20% Eco-Till Radish

**CSG SW-ROP**  Cover Crop Mixture

Conservation Science Genetics™. 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 residual nitrogen levels. Produces forage for fall and spring grazing; spring silage or hay.  **Seed at 50 lbs/acre.**

50% Austrian Winter Pea  40% Jerry Oats  10% Eco-Till Radish

**CSG SW-RCT**  Cover Crop Mixture

Conservation Science Genetics™. Rapid establishment to prevent wind and water erosion. Recycles nutrients that would have been lost to leaching or runoff. Improves soil permeability for increased air and water penetration; reduces soil compaction and increases root development. Best used prior to corn, wheat or other crops requiring significant nitrogen inputs. Produces forage for fall and spring grazing; spring silage or hay.  **Seed at 50 lbs/acre.**

80% Triticale  10% Crimson Clover  10% Eco-Till Radish

**CSG SW-RAR**  Cover Crop Mixture

Conservation Science Genetics™. Improves soil permeability for increased air and water penetration; reduces soil compaction and increases root development. 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. Produces forage for fall grazing.  **Seed at 25 lbs/acre.**

80% DH-3 Annual Ryegrass  20% Eco-Till Radish

**ECO-TILL™**  Radish

Conservation Science Genetics®. Superior deep penetrating tap root can reach up to 24 inches 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 applications.

**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.**
### Forage and Pasture Mixes

<table>
<thead>
<tr>
<th>Mix Type</th>
<th>Weight</th>
<th>Varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEEDWAY 100</strong> Long Term Stands (20 lb/acre)</td>
<td>75%</td>
<td>SEEDWAY Premium Alfalfa Variety&lt;br&gt;25%</td>
</tr>
<tr>
<td><strong>SEEDWAY 150</strong> Premium Forage (20 lb/acre)</td>
<td>85%</td>
<td>SEEDWAY Premium Alfalfa Variety&lt;br&gt;15%</td>
</tr>
<tr>
<td><strong>SEEDWAY 200</strong> Variable Drainage (20 lb/acre)</td>
<td>50%</td>
<td>SEEDWAY Premium Alfalfa Variety&lt;br&gt;30%</td>
</tr>
<tr>
<td><strong>SEEDWAY 250</strong> Variable Soils (20 lb/acre)</td>
<td>65%</td>
<td>SEEDWAY Premium Alfalfa Variety&lt;br&gt;25%</td>
</tr>
<tr>
<td><strong>SEEDWAY 300</strong> Lowland Mix (20 lb/acre)</td>
<td>35%</td>
<td>Premium Trefoil&lt;br&gt;30%</td>
</tr>
<tr>
<td><strong>SEEDWAY 350</strong> Haymaster Mix (30 lb/acre)</td>
<td>35%</td>
<td>Premium Tall Fescue&lt;br&gt;15%</td>
</tr>
<tr>
<td><strong>SEEDWAY 400</strong> Clover Mix (18 lb/acre)</td>
<td>60%</td>
<td>FSG 9601 Red Clover&lt;br&gt;40%</td>
</tr>
<tr>
<td><strong>SEEDWAY 450</strong> Value Mix (18 lb/acre)</td>
<td>50%</td>
<td>Alfalfa&lt;br&gt;35%</td>
</tr>
<tr>
<td><strong>SEEDWAY 500</strong> Renovator Mix (30-40 lb/acre)</td>
<td>35%</td>
<td>Festulolium&lt;br&gt;15%</td>
</tr>
<tr>
<td>TAR Economy Mix (15 lb/acre)</td>
<td>50%</td>
<td>Timothy&lt;br&gt;20%</td>
</tr>
</tbody>
</table>

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.

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**PRO DAIRY** Pasture Mix

Farm Science Genetics®. Maximize the performance of dairy cattle. Grasses and clover provide yield, nutrition, stand persistence and disease resistance. **Seed at 25 lb/acre**.

- 25% | Bounty Orchardgrass<br>20% | Brave Brand Perennial Ryegrass<br>15% | Gain Festulolium<br>15% | Summit Timothy<br>10% | Regen Alfalfa<br>10% | FSG 9601 Red Clover<br>5% | Pinnacle Ladino Clover

**PRO HORSE** Pasture Mix

Farm Science Genetics®. Formulated to meet the special needs of horses, while withstanding intense grazing pressure. **Seed at 25 lb/acre**.

- 40% | Brave Brand Perennial Ryegrass<br>20% | Summit Timothy<br>20% | Extend Orchardgrass<br>12% | Troy Kentucky Bluegrass<br>8% | Jumbo Ladino Clover

**PRO BEEF** Pasture Mix

Farm Science Genetics®. Maximize beef animal per acre return. High quality ingredients blended in the proper rations. **Seed at 25 lb/acre**.

- 40% | Flourish Tall Fescue<br>24% | Bounty Orchardgrass<br>10% | Prince Brand Ryegrass<br>10% | Brave Brand Perennial Ryegrass<br>6% | FSG 9601 Red Clover<br>6% | Summit Timothy<br>4% | Pinnacle Ladino 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.
**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 increased milk per cow over the grazing season. Improved digestibility. Seed at 25 lbs per acre.
- 27.5% Aber Dart High-Sugar Perennial Ryegrass
- 27.5% Aber Avon High-Sugar Perennial Ryegrass
- 25% Aber Echo High-Sugar Intermediate Ryegrass
- 15% Perfect Alfalfa
- 5% Winter White Clover

**SucraSEED™ BEEF BANK**  
High Sugar Pasture Mix

High sugar mixture designed for beef cattle. Improved intake and weight gain potential. Better palatability and digestibility. Seed at 25 lbs per acre.
- 27.5% Aber Dart High-Sugar Perennial Ryegrass
- 27.5% Aber Avon High-Sugar Perennial Ryegrass
- 25% Aber Echo High-Sugar Intermediate Ryegrass
- 15% Quickdraw Orchardgrass
- 3% Medium Red Clover
- 2% Winter White Clover

**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. The grasses’ high sugar reserves make lush, thick stands withstanding hot, dry summers and cold winters. More sugar provides the grasses extra energy for quick re-growth after cutting and the aggressiveness to crowd-out weeds. HSGs are proven to increase livestock yields.

**SSG 886BMR6**  
Leafy BMR Hybrid Sudangrass

BMR 6 gene adds high quality to a plant with fine stems and quick regrowth. Fast dry-down allows used in areas that have trouble putting sorghum sudan up as dry hay. Exceptional forage yield. Very heat and drought tolerant, healthy, nutritious.

**GREENGRAZER V**  
Hybrid Sorghum - Sudangrass

Small seeded. Thin palatable stems. Very fast regrowth. Higher populations grow finer stemmed forage which dry faster.

**BDL 234**  
Leafy BMR Sorghum - Sudangrass

High yield potential brown midrib sorghum x sudangrass brachytic dwarf for maximum leaf area and standability. High leaf-to-stem ration. Shortened internodes enable closer cutting and grazing. Seed 10-30 lbs. per acre.

**FSG 214 BMR 6**  
Dry Stalk Hybrid Sorghum - Sudangrass

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 a 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 system allowing you to produce the maximum amount of forage.

**PASTURE MIXES and ANNUAL FORAGES**

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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.
Hybrid Forage Sorghum

**BMR-106**
Brown midrib hybrid for high quality forage. Reduced lignin and improved fiber digestibility. High yield potential, excellent early vigor & drought tolerance. Recommended harvest is 100 days after planting.

For regions SOUTH of Interstate 80 (Central PA).

**BDL 1717**
Single cut, high yield potential and highly palatable with BMR 6 marker. Dry stalk sorghum that will rival corn silage yield and quality when direct harvested at early dough stage. Excellent seedling vigor and drought tolerance. 
For regions NORTH of Interstate 80 (Central PA).

**DSS 685**
High yield conventional hybrid. Dense, lush leaf, large grain head. High grain to fodder ratio. Medium plant height 5-7 ft. 

**FSG 114 BMR 6 Early Maturity**
- Dry stalk gene improves harvestability timing
- Significantly lower stem lignin concentration
- Improved digestibility and palatability
- Requires 1/3 less water than corn
- Male sterile hybrid

**FSG 116 Early Maturity**
- Red colored grain, semi-open head
- Exceptional yield performance
- Excellent early vigor
- Plant height 36 to 42 inches.

**FSG 255C Early-Med Mat.**
- Cream colored grain, semi-open head
- High yield potential
- Excellent early vigor
- Plant height 41 to 44 inches
- First choice for wildlife food/cover.

**FSG 421 Medium Maturity**
- Bronze colored grain, semi-open head
- Outstanding yield potential
- Excellent standability and early vigor
- Plant height 44 to 48 inches

**FSG 541 Medium-Late Mat.**
- Bronze colored grain
- Excellent vigor
- Plant height 44 to 51 inches

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