At Alforex®, we think you should expect more from your alfalfa and forage crops. High yields, solid agronomics, better forage quality and improved fiber digestibility are all reasonable requirements for these crops, but perhaps now is the time to reach a little higher. **Time to grow your performance expectations.**

That may be a bold challenge, but over the last several years we’ve seen the power in that type of thinking. Whether it’s Hi-Ton® alfalfa, Hi-Salt salinity tolerant varieties or the industry leading Hi-Gest® family of performance alfalfas, each can make a real difference on the farm. And if you could take a peek at our pipeline, you’d see we’ve only just scratched the surface.

Our promise to you is that we’ll continue leading the way and pushing the industry to new heights. We’ll stay committed to alfalfa and forage. And we’ll do our best to help you get more out of your alfalfa and forage crops.

**Our name stands for alfalfa and forage excellence.** That’s our focus, and when you use our products, that commitment shines through in every bag.
FOCUSED ON PERFORMANCE
Alforex® brand products deliver a wide range of agronomic solutions tailored to where and how you farm. Real solutions—like salinity and stress tolerance, improved persistence, yield performance, better fiber digestibility and Hi-Gest® sudangrass—that help improve yield, feed efficiency and nutrition, adding value through more milk, more meat and greater productivity per acre.

FOCUSED ON INNOVATION
Decades of alfalfa research results in a fast paced environment of continual innovation devoted exclusively to alfalfa and forages. That means you can rely on us for groundbreaking products along with steady advances in yield, quality, pest resistance, stress tolerance and persistence.

FOCUSED ON YOU
When you choose Alforex Seeds, you benefit from dedicated technical experts and a sales team who focuses solely on alfalfa and forages. Their insight and experience across millions of acres when combined with the knowledge you have of the specific conditions on your farm, will find the best seed solution for you. When it comes time to plant, you won’t rely on speculation; you’ll rely on proven expertise.

Table of Contents

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<td>Sorghum</td>
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On-farm performance
Varieties with Hi-Gest have been proving their extra performance and value since the 2015 growing season. Livestock respond to the improved fiber digestibility and forage intake increases as expected when Hi-Gest forage is included in the ration. Dairymen who grow their own forage are rapidly converting their acres to Hi-Gest to take advantage of the higher digestibility, while commercial hay growers who focus on quality for their clients are being rewarded for preserving the identity of these higher performing lots of hay.

Balancing yield and quality
Lignin is the complex organic compound that hardens and strengthens the plant’s cell walls. In mature plants, lignin increases yield, but negatively affects forage quality and interferes with animal digestion. To minimize this dilemma, producers have traditionally found a compromise between yield and quality by harvesting at late-bud stage to one-tenth flower. Today’s Hi-Gest varieties with faster fiber digestibility provide growers additional management flexibility around the traditional yield versus quality dilemma.

Through focused breeding Hi-Gest developed varieties offer high yield, a 5-10% increased rate of fiber digestion which improves animal intake; increased extent of fiber digestion (as measured by UNDF 240) by 5-10%, and raises crude protein of the forage by 3-5% when compared to other conventional varieties*. The net impact is higher testing, higher value hay which can mean 2.5 or more pounds of milk per cow per day when fed versus other conventional varieties.

Management flexibility
Alfalfa varieties with Hi-Gest will easily fit into your alfalfa management system. The varieties have the flexibility to adjust to aggressive harvest systems to maximize yield and quality or to more relaxed schedules focused on tonnage. Either way, growers put the odds of improved returns per acre and animal performance in their favor.

Ask your Alforex Seeds Dealer
They can tell you who’s growing Hi-Gest alfalfa in your area and share their experiences with you. You may be surprised who has already made the move!

* The increased rate of fiber digestion, extent of digestion, and crude protein data was developed from replicated research and on-farm testing. During the 2015 growing season at West Salem, WI and Woodland, CA, the following commercial dormant, semi-dormant and non-dormant alfalfa varieties were compared head-to-head with Hi-Gest® alfalfa for rate of digestion, extent of digestion and percent crude protein: America’s Alfalfa Brand Ameristand 427TQ, Cropland Brands Legendairy XHD and Artesia Sunrise, Fertizona Brand Fertilac, S&W Seeds Brands SW6330, SW7410 and SW10, and WL Brands WL 319HQ and WL 354HQ. Also during the 2015 growing season, 32 on-farm Hi-Gest hay and silage samples were submitted to Rock River Laboratory, Inc. for forage analysis. The results for rate of digestion, extent of digestion and percent crude protein were averaged and compared to the 60 day and four year running averages for alfalfa in the Rock River database which included approximately 1,700 alfalfa hay and 3,800 silage 60 day test results and 23,000 hay and 62,000 silage tests results in the four year average.
“Quality is everything for us and Hi-Gest 360 in our mixture is working great for us and our hay customers. We’re adding more acres again this year.”

Dan Miller
J & L Hay Farms, LLC
Friedens, PA

Hi-Gest® Products
AFX 460 ---------- page 9
Hi-Gest 360 ------ page 10
Maximize productive harvests and total seasonal yield

Maximize milk/meat per ton and per acre

Maximize heat units and conserve soil moisture for crop growth

Hi-Ton® Performance Alfalfa

There are three Alforex alfalfa varieties that have earned the Hi-Ton® designation. These varieties are AFX 579, AFX 469, and AFX 429. Each has exceeded the yield of peer experimentals, and commercial alfalfa varieties by 5% in Alforex Seeds replicated testing, the minimum threshold for Hi-Ton® alfalfa. Alforex alfalfa varieties carrying the Hi-Ton® designation are the first choice for the aggressive manager pushing their alfalfa acres to maximize seasonal dry matter yield.

When alfalfa fields are green and growing, chances are they are generating extra yield. The faster recovery after harvest speeds green-up by 3 to 5 days, shortening the days to harvest maturity and the next cutting. This faster growth starts with the first crop and gives a head start to each season and the number of cuts taken before the fall cutoff. Along the way, more of the season's total yield is harvested at mid-summer when heat units are at their peak and weather can be more cooperative.

To carry the FastGrowth rating, Hi-Ton varieties must average at least 2 cm of growth per day starting with spring green-up. Most commercial varieties range from 1.5 to 1.9 cm per day, which gives FastGrowth varieties a performance advantage in the field.
“The performance is all there with AFX 469 and nutritionally, we could tell when we hit it in the silo.”

Steve & Shelly Becker
Git-R-Done Farm
Auburndale, WI
**Performance**
- For growers who aggressively manage and harvest their alfalfa acres to maximize dry matter yield per acre
- FastGrowth ability shaves 3 to 5 days off the time between harvests to maximize seasonal yield
- Carries a strong, multiple-pest package to protect fast-growing plants and aggressively managed acres

**Management**
- Fast-growing variety for production areas that use fall dormancy 4 and 5 alfalfas, and when four or more cuts are expected each season
- Very early harvest maturity; reaches late bud or early flower 3 to 5 days ahead of most dormant alfalfas
- Very fast green-up after harvest and accelerated growth to harvest maturity

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

**Agronomics**
- Yield rating: 5 or Best
- Fall dormancy class: FD 5
- Winter hardiness class: WS 2.5
- Multifoliate leaf expression: 49%/Low MF
- FastGrowth rating: 2.26/Very Fast
- Salinity tolerance: Tolerant

**Pest Package**
- **Diseases**
  - Anthracnose
  - Aphanomyces-Race 1
  - Aphanomyces-Race 2
  - Bacterial wilt
  - Fusarium wilt
  - Phytophthora root rot
  - Verticillium wilt
- **Insects**
  - Blue alfalfa aphid
  - Pea aphid
  - Cowpea aphid
- **Nematode Resistance**
  - Stem nematode

**Yield Ratings:** Based on performance between Alforex Seeds varieties
- 5 = Best
- 3 = Average
- 1 = Poor
**AFX 469**

**Performance**
- For growers who aggressively manage their established alfalfa acres
- A 11% yield advantage versus PGI 557
- FastGrowth ability shaves 3 to 5 days off the time between harvests to maximize seasonal yield
- A strong 1.5 winter survival rating

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

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

**Agronomics**
- Yield rating: 5 or Best
- Fall dormancy class: FD 4
- Winter hardiness class: WS 1.5
- Multifoliate leaf expression: 47%/Low MF
- FastGrowth rating: 2.11/Fast
- Salinity tolerance: Tolerant

**Pest Package**

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**AFX 460**

**Performance**
- A high yield potential, Hi-Gest® alfalfa for geographies using fall dormancy 4-5 varieties
- A product of forward breeding for improved yield and forage quality
- Features improved fiber digestibility and better animal performance when compared to other conventionally bred varieties. Variety patent pending

**Management**
- Responds to today’s recommended best management practices
- Adapted to aggressive high quality production systems or more relaxed high yield practices
- No known soil type limitations

**Appearance at Harvest Maturity**
- Plants are medium-tall with a dense canopy of dark green leaves up and down the stems
- A strong foliar leaf disease package contributes to a high leaf-to-stem ratio and higher crude protein

**Agronomics**
- Yield rating: 5 or Best
- Fall dormancy class: FD 4
- Winter hardiness class: WS 1.5
- Multifoliate leaf expression: 93%/High MF
- FastGrowth rating: 2.03/Fast

**Pest Package**

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From a distance, a field of Hi-Gest® alfalfa will look very much the same as any other alfalfa field. But take a closer look and you’ll see a leafy, dense canopy with a higher concentration of leaves in the lower plant canopy than most conventionally bred varieties. Look for a 5-8% increase in leaves** and a corresponding increase in fiber digestibility and crude protein.
**AFX 429**

**Performance**
- A widely adapted variety that maximizes yield and quality under aggressive or relaxed harvest management systems
- Strong multiple pest package including stem nematodes for western growers
- Features stable yield performance into the later harvest years when longer rotations are desired

**Management**
- Adapted to production zones all across the U.S. where fall dormancy 3, 4 or 5 varieties are normally recommended
- A milk per acre winner when aggressively managed for dairy hay
- A Hi-Ton yield variety with an average green-up rate after harvest
- Expected to perform very well in mixtures with cool season grasses or other legumes

**Appearance at Harvest Maturity**
- Plants at bud stage will be medium-tall and feature a uniform canopy of large, medium-green leaves

**Agronomics**
- **Yield rating:** 5 or Best
- **Fall dormancy class:** FD 4
- **Winter hardness class:** WS 2
- **Multifoliate leaf expression:** 56%/Low MF
- **FastGrowth rating:** 1.98/Average

**Pest Package**

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**Diseases**
- Anthracnose
- Aphanomyces-Race 1
- Aphanomyces-Race 2
- Bacterial wilt
- Fusarium wilt
- Phytophthora root rot
- Verticillium wilt

**Insects**
- Blue alfalfa aphid
- Cowpea aphid
- Pea aphid
- Spotted alfalfa aphid

**Nematode Resistance**
- Stem nematode

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**Hi-Gest® 360**

**Performance**
- A high yield potential, Hi-Gest variety with improved fiber digestibility, intake and extent of digestion versus other conventional alfalfas
- A product of traditional plant breeding with a variety patent pending
- A variety that has been meeting grower and livestock producers expectations since the 2015 growing season

**Management**
- Adapted to today’s best alfalfa management practices
- Adapted to aggressive high quality or more relaxed high tonnage management systems
- Rations using Hi-Gest can be easily balanced by nutritionists with the results of an accurate feed test

**Appearance at Harvest Maturity**
- Plants are medium-tall, with a higher stem count, axillary branching, and a dense canopy of leaves up and down each stem
- A high leaf-to-stem ratio and more crude protein than other conventionally bred, high quality, dormant alfalfa varieties at harvest maturity

**Agronomics**
- **Yield rating:** 5 or Best
- **Fall dormancy class:** FD 3
- **Winter hardness class:** WS 1.5
- **Multifoliate leaf expression:** 73%/Moderate MF
- **FastGrowth rating:** 1.83/Average
- **Salinity tolerance:** Tolerant

**Pest Package**

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**Diseases**
- Anthracnose
- Aphanomyces-Race 1
- Aphanomyces-Race 2
- Bacterial wilt
- Fusarium wilt
- Phytophthora root rot
- Verticillium wilt

**Insects**
- Blue alfalfa aphid
- Pea aphid

**Nematode Resistance**
- Northern root knot
- Stem nematode

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**PGI 212**

**Performance**
- Adaptable, stable, winter-hardy variety for high-yield environments
- Fits a wide range of growing conditions and harvest systems
- Superb forage quality in a conventional variety to maximize animal performance

**Management**
- Adapted to geographies where fall dormancy 2, 3 or 4 alfalfas are recommended for longer rotations
- Performs equally well when aggressively managed or harvested at later maturities
- Traffic/compaction tested

**Appearance at Harvest Maturity**
- Uniform, eye-appealing variety with a dense, medium-dark canopy

**Agronomics**
- **Yield rating:** 3
- **Fall dormancy class:** FD 2
- **Winter hardness class:** WS 1
- **Multifoliate leaf expression:** 76%/Moderate MF
- **FastGrowth rating:** 1.74/Slow

**Pest Package**

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**Diseases**
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- Aphanomyces-Race 2
- Bacterial wilt
- Fusarium wilt
- Phytophthora root rot
- Verticillium wilt

**Insects**
- Blue alfalfa aphid
- Pea aphid

**Nematode Resistance**
- Northern root knot
- Stem nematode
### Performance
- Blend of proprietary alfalfa varieties for fields or situations when “the best” isn’t necessary but value is

### Management
- Adapted to production geographies where fall dormancy 3 to 5 varieties are recommended

### Appearance at Harvest Maturity
- Appearance will vary depending upon the proprietary components selected

### Agronomics

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<tr>
<td>Aphanomyces-Race 1</td>
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<tr>
<td>Bacterial wilt</td>
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<tr>
<td>Fusarium wilt</td>
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<tr>
<td>Phytophthora root rot</td>
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<tr>
<td>Verticillium wilt</td>
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<td>Insects</td>
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<tr>
<td>Pea aphid</td>
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</table>

### Diseases

- Anthracnose
- Aphanomyces-Race 1
- Bacterial wilt
- Fusarium wilt
- Phytophthora root rot
- Verticillium wilt

### Insects

- Pea aphid

### Yield Ratings: Based on performance between Alforex Seeds varieties

- 5 = Best
- 4 = Average
- 1 = Poor

### Agronomic Ratings are based on average performance between Alforex varieties. Unless stated, ratings are based on standardized testing procedures endorsed by the North American Alfalfa Improvement Conference.

### StandFast FastGrowth

FastGrowth ratings are calculated by Alforex Seeds from weekly measurement of varieties grown side-by-side from green-up to harvest through the growing season. Expressed as average centimeters growth per day.

- >2.20 = Very Fast
- >2.00 = Fast
- >1.80 = Average
- >1.60 = Slow
- <1.60 = Very Slow

** Improved Hi-Gest® alfalfa leafiness, as documented by Alforex Seeds replicated trials at West Salem, WI and Woodland, CA, versus the following commercial alfalfa varieties; America’s Alfalfa Brand Ameristand 427TQ, Cropland Brands Legendary XHD and Artesia Sunrise, Fortizona Brand Fertilac, S&W Brands SW6330, SW7410 and SW10, and WL Brands WL 319HQ and WL 354HQ.
From start...

to Finish.

Expect More.
Get More.
**Forte Brand Tall Fescue**

**Endophyte-Free**

**Performance/Management**
- Quick-establishing, deep-rooted, long-lived perennial bunchgrass that is easily managed for pasture or hay
- Adapted to a wide range of environmental conditions including wet soils, and tolerates alkalinity and salinity
- When established Forte tall fescue grows quickly, is endophyte-free and has fine leaves for improved palatability over KY 31 tall fescue

**Seeding Rate Recommendations**
- See chart below

**Agronomics**

<table>
<thead>
<tr>
<th>Agronomics</th>
<th>5</th>
<th>4</th>
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<td>Leaf texture</td>
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**Grasses and Mixtures Recommended Seeding Rates**

<table>
<thead>
<tr>
<th>Product</th>
<th>Bag Size</th>
<th>Drilled Pure Stands</th>
<th>Broadcast Pure Stands</th>
<th>Interseeding</th>
<th>Over/Frost Seeding</th>
<th>Grass/Hay Mixture</th>
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<td>Optima Brand Late Orchardgrass</td>
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<td>Imperial Brand Timothy</td>
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<td>8 to 10</td>
<td>3 to 5</td>
<td>3 to 5</td>
<td>5 to 8</td>
</tr>
</tbody>
</table>

**Grasses & Mixtures**

**Agronomic and Mixture Ratings:**

- 1 = Early or Poor
- 3 = Average
- 5 = Late or Best

---

**Optima Brand Orchardgrass**

**Late Maturity**

**Performance/Management**
- Late-maturing, long-lived, winter-hardy perennial bunchgrass that can be grown alone or in a mixture for hay or pasture
- Widely adapted orchardgrass with increased tillering to produce a dense stand without the clumping of traditional varieties
- Excellent rust resistance
- An ideal component in mixtures with alfalfa

**Seeding Rate Recommendations**
- See chart below

**Agronomics**

<table>
<thead>
<tr>
<th>Agronomics</th>
<th>5</th>
<th>4</th>
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<td>Leaf texture</td>
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</table>

**Imperial Brand Timothy**

**Late Maturity**

**Performance/Management**
- Late-maturing, perennial bunchgrass for the traditional timothy production area for hay, silage, or pasture
- Best adapted to soils with good drainage
- Responds to best management practices when grown alone or in mixtures
- Very good seedling vigor and can be established in the spring or fall

**Seeding Rate Recommendations**
- See chart below

**Agronomics**

<table>
<thead>
<tr>
<th>Agronomics</th>
<th>5</th>
<th>4</th>
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Grasses and Mixtures Recommended Seeding Rates

<table>
<thead>
<tr>
<th>Product</th>
<th>Bag Size</th>
<th>Drilled Pure Stands</th>
<th>Broadcast Pure Stands</th>
<th>Interseeding</th>
<th>Over/Frost Seeding</th>
<th>Grass/Hay Mixture</th>
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<td>Jetta Brand Italian Ryegrass</td>
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<tr>
<td>Journey Brand Perennial Ryegrass</td>
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<td>15 to 20</td>
<td>3 to 5</td>
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<td>18 to 22</td>
<td>3 to 5</td>
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<td>35 to 45</td>
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<td>15 to 20</td>
<td>3 to 5</td>
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<td>35 to 45</td>
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<td>Charger Brand Teff Grass (34% coated)</td>
<td>50</td>
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<td>10 to 12</td>
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</table>
All Grass Pasture Mix

Widely Adapted

Performance/Management
• All Grass Pasture Mix can be used for pasture, hay production, wildlife habitat or soil conservation plantings
• Components, as a mixture, adapt to a wide range of growing conditions and soil types
• Versatile, economical mixture for season-long production

Mixture Components*
20% Optima Brand Orchardgrass—Rapid re-growth after harvest
20% Journey Brand Perennial Ryegrass—Forage quality
20% Imperial Brand Timothy—Winter hardiness and forage quality
20% Forte Brand Tall Fescue—Endophyte-free and durability
10% Smooth Bromegrass—Easy to establish and very persistent
10% Marquis Brand Festulolium—Summer productivity

Seeding Rate Recommendations
• See chart below

*Components are subject to availability and may change over time

Equine Hay & Pasture Mix

Season Long Grazing

Performance/Management
• Mixture of cool-season grasses formulated for horses on pasture that has the option of harvesting as dry hay
• Includes perennial species that recover quickly after close grazing and other species that contribute to yield and palatability when harvested as hay
• Endophyte-free and does not contain a legume component

Mixture Components*
30% Optima Brand Orchardgrass—Rapid re-growth after harvest
15% Bardenby Bluegrass—Tolerates close grazing and spreads to fill in open spots
15% Imperial Brand Timothy—Early season growth and yield
15% Jetta Brand Italian Ryegrass—Quick establishment
15% Marquis Brand Festulolium—Summer productivity
10% Journey Brand Perennial Ryegrass—Forage quality

Seeding Rate Recommendations
• See chart below

*Components are subject to availability and may change over time

Revive Pasture Mix

Boost Yield

Performance/Management
• Mixture of cool season grasses selected for forage quality, season-long productivity, palatability and persistence
• Features perennial grasses that do well when interseeded into worn-out pastures or hay fields to rejuvenate productivity
• Endophyte-free grasses; does not contain a legume component

Mixture Components*
30% Optima Brand Orchardgrass—Rapid re-growth
30% Forte Brand Tall Fescue—Summer productivity and stockpiling
15% Journey Brand Perennial Ryegrass—Quick stand establishment
15% Jetta Brand Italian Ryegrass—Quick establishment
10% Marquis Brand Festulolium—Summer productivity and forage quality

Seeding Rate Recommendations
• See chart below

*Components are subject to availability and may change over time

Also Available:

Smooth Bromegrass
Climax Timothy
Crimson Clover
VNS Medium Red Clover

Agronomic and Mixture Ratings:
1 = Early or Poor
3 = Average
5 = Late or Best

NOW AVAILABLE
**Charger BRAND Teff Grass**

*Quality Forage Fast*

**Performance/Management**
- Warm-season, summer annual grass that produces multiple crops of high quality and palatable hay for horses, dairy and beef cattle
- Low input crop that is easy to grow
- PVP (Plant Variety Protected) variety

**Agromics**

<table>
<thead>
<tr>
<th>Product</th>
<th>Yield</th>
<th>Maturity</th>
<th>Palatability</th>
<th>Digestibility</th>
<th>Disease tolerance</th>
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<th>Winter hardness</th>
<th>Drought tolerance</th>
<th>Grazing adaptability</th>
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<td>AFX 44 Brand Red Clover (34% coated)</td>
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**Seeding Rate Recommendations**
- See chart below

**Clover Recommended Seeding Rates**

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<th>Seeding Method and Pounds Per Acre</th>
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<td><strong>Product</strong></td>
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<td><strong>Bag Size</strong></td>
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</tr>
<tr>
<td>AFX 44 Brand Red Clover (34% coated)</td>
</tr>
<tr>
<td>EverGraze Brand Ladino Clover (34% coated)</td>
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</tbody>
</table>

**Download the Guide**
To learn more about how to manage teff grass, visit www.alforexseeds.com/products to view and/or download a printable PDF of the Teff Grass Crop Overview and Forage Production Guide.
Ripper BRAND
Radish
Deep Tap Root

Performance/Management
- Selection of daikon radish for use as a cover crop to improve soil tilth, water infiltration and organic matter
- Ripper Radish can be planted as pure stands or in mixtures
- Scavenger crop that requires limited fertilizer and low inputs
- Plant in late summer or early fall 30 to 60 days prior to the first killing frost date. Tolerant to frost until temperatures fall below 25°
- Crop decomposes quickly leaving behind improved soil structure and organic matter levels

Seeding Rate Recommendations
- In pure stands, plant 4 to 6 pounds per acre with a precision planter, 8 to 10 pounds per acre when broadcast
- In cover crop mixtures, include 2 to 4 pounds per acre
- See chart below

Braco White Mustard
A Biofumigant Crop

Performance/Management
- Fast-growing, widely adapted biofumigant crop for nematode control following high value crops
- Scavenger crop that requires limited nutrients and has low input costs
- After planting, allow about 45 days of growth before incorporating. Incorporation should be completed before the crop reaches full bloom. When incorporating, chop fine and incorporate as uniformly as possible to aid biofumigant as the crop decomposes. Wait at least two weeks before planting the next crop

Seeding Rate Recommendations
- For pure stands, seed 15 pounds per acre when drilled and 18 to 20 pounds when broadcast
- See chart below

Cover Crop Recommended Seeding Rates

<table>
<thead>
<tr>
<th>Product</th>
<th>Bag Size</th>
<th>Drilled Pure Stands</th>
<th>Broadcast Pure Stands</th>
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<th>Over/Frost Seeding</th>
<th>Grass/Hay Mixture</th>
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<tr>
<td>Braco White Mustard</td>
<td>50</td>
<td>15</td>
<td>18 to 20</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
**Hi-Gest® Sudangrass Crop Overview and Forage Production Guide**

**Download the Guide**
To learn more about how to manage Hi-Gest® Sudangrass, visit [www.alforexseeds.com/products](http://www.alforexseeds.com/products) to view and/or download a printable PDF of the Hi-Gest Sudangrass Crop Overview and Forage Production Guide.

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**ForageKing Sorghum x Sudangrass**

**Performance**
- Warm-season, summer annual best adapted to rotational grazing, hay or silage where a wide harvest window is desired
- Stays in the vegetative growth stage until day length is 12 hours and 20 minutes or less, which is usually September, depending on latitude
- Features a very good disease resistance package

**Management**
- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is normally grown
- Plant after the danger of frost and soil temperatures exceed 65°
- Leave a 3 to 4” stubble at harvest and apply 1 to 1.25 pounds of actual nitrogen for each day to the expected next harvest
- Follow all sorghum feeding precautions

**Appearance at Harvest Maturity**
- Wide, showy leaves with the characteristic brown mid-rib coloring

**Seeding Rate Recommendations**
- Approximately 16,000 seeds per pound
- In 6” to 18” drilled rows, seed 10 to 25 pounds per acre dryland and 15 to 40 pounds per acre irrigated
- For broadcast, seed 10 to 30 pounds per acre dryland and 20 to 40 pounds per acre irrigated

---

**PhotoKing Sorghum x Sudangrass**

**Performance**
- Warm-season, summer annual best adapted to rotational grazing, hay or silage where a wide harvest window is desired
- Stays in the vegetative growth stage until day length is 12 hours and 20 minutes or less, which is usually September, depending on latitude
- Features a very good disease resistance package

**Management**
- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is normally grown
- Plant after the danger of frost and soil temperatures exceed 65°
- Leave a 3 to 4” stubble at harvest and apply 1 to 1.25 pounds of actual nitrogen for each day to the expected next harvest
- Follow all sorghum feeding precautions

**Appearance at Harvest Maturity**
- Wide, showy leaves with the characteristic brown mid-rib coloring

**Seeding Rate Recommendations**
- Approximately 15,000 seeds per pound
- For 6” to 18” drilled rows dryland, seed 12 to 35 pounds per acre and 30 to 40 pounds per acre irrigated
- For broadcast, seed 10 to 30 pounds per acre dryland and 20 to 40 pounds per acre irrigated

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**HayKing II Hybrid Sorghum x Sudangrass**

**Performance**
- Low-lignin content increases digestibility in livestock rations
- Warm-season, summer annual with seasonal dry-matter tonnage equal to corn silage as silage, pasture or hay
- Low-input requirements and an efficient user of nitrogen and water, with few weed or pest concerns
- Superior forage quality versus BMR hybrid sorghum x sudangrass with reduced prussic acid

**Management**
- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is normally grown
- Plant after danger of frost and soil temperatures exceed 65°
- Fine stems, leafy and aggressive tillering after harvest. Leave a 3 to 4” stubble
- Follow all sorghum feeding precautions

**Appearance at Harvest Maturity**
- A fast-growing hybrid with very fine stems, aggressive tillering and a mass of leaves with the characteristic brown mid-rib coloring, Usually chest-high before head extension

**Seeding Rate Recommendations**
- Approximately 32,000 seeds per pound
- For the Midwest, Northeast, and Southeast, use 30 to 60+ pounds per acre in 6” to 18” rows
- For the Great Plains dryland, seed 15 to 30+ pounds per acre in 6” to 18” rows. When irrigated increase to 30 to 60+ pounds in 6” to 18” rows
- For Intermountain West irrigated, seed 40 to 60+ pounds per acre in 6” to 18” rows
- For Southwest irrigated, seed 50 to 100+ pounds per acre in 6” to 18” rows

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**Sorghum x Hybrid Sudangrass**

**Performance**
- Low-lignin content increases digestibility in livestock rations
- Warm-season, summer annual with seasonal dry-matter tonnage equal to corn silage as silage, pasture or hay
- Low-input requirements and an efficient user of nitrogen and water, with few weed or pest concerns
- Superior forage quality versus BMR hybrid sorghum x sudangrass with reduced prussic acid

**Management**
- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is normally grown
- Plant after danger of frost and soil temperatures exceed 65°
- Fine stems, leafy and aggressive tillering after harvest. Leave a 3 to 4” stubble
- Follow all sorghum feeding precautions

**Appearance at Harvest Maturity**
- A fast-growing hybrid with very fine stems, aggressive tillering and a mass of leaves with the characteristic brown mid-rib coloring, Usually chest-high before head extension

**Seeding Rate Recommendations**
- Approximately 16,000 seeds per pound
- In 6” to 18” drilled rows, seed 10 to 25 pounds per acre dryland and 15 to 40 pounds per acre irrigated
- For broadcast, seed 10 to 30 pounds per acre dryland and 20 to 40 pounds per acre irrigated
**DwarfKing Forage Sorghum**

**Performance**
- Warm-season, single-cut forage sorghum that produces a grain head
- Plants with a grain head are normally 6 to 7 feet tall with very good standability at harvest maturity
- Highly digestible and palatable silage for beef or dairy cattle

**Management**
- Plant in spring or early summer to reach soft-dough maturity in 95 days
- Plant after the danger of frost and soil temperatures exceed 65°
- Exhibits good seedling vigor for no-till planting into stubble
- Apply 1 to 1.25 pounds of actual nitrogen for each day from seeding to the expected harvest date

**Appearance at Harvest Maturity**
- Plants with large grain heads will be 6 to 7 feet tall with thick stalks and very wide leaves

**Seeding Rate Recommendations**
- Approximately 16,000 to 18,000 seeds per pound
- In corn planter row widths, seed 6 to 8 pounds per acre dryland and 10 to 12 pounds per acre irrigated
- For broadcast, seed 10 to 15 pounds per acre dryland and 15 to 20 pounds per acre irrigated

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**SweetKing Sorghum x Sudangrass**

**Performance**
- Warm-season summer annual for multiple cuttings as hay, silage, or rotational growing; a great choice for green manure
- 55-60 days to maturity
- An economical option when the Brown Mid-Rib trait isn’t required

**Management**
- Adapted to all areas of the US where hybrid sorghum x sudangrass or hybrid sudangrass is grown
- Plant after danger of frost and soil temperatures are above 65 degrees
- Leave 4-6 inches of stubble at harvest and apply 1 to 1.25 pounds of actual nitrogen for each day to the expected next harvest
- Follow all sorghum feeding precautions

**Appearance at Harvest Maturity**
- Wide leaves on plants that may reach 6+ feet tall at harvest

**Seeding Rate Recommendations**
- Approximately 16,000 seeds per pound
- In 6 to 18 inch drill rows, seed 10-25 pounds per acre dryland and 15 to 40 pounds per acre irrigated
- For broadcast, seed 10-30 pounds per acre dryland and 20-40 pounds per acre irrigated

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**CW 7700 Forage Sorghum**

**Performance**
- Forage sorghum hybrid that efficiently produces high forage yields and is easy to manage
- Fits silage production needs of dairies and feedlots across the Southern Great Plains and Southwestern U.S.
- Efficient user of water and fertility

**Management**
- Uses a third less water and half the applied nitrogen fertilizer as corn for silage
- Reaches the soft-dough stage in approximately 120 days
- Strong stalks for very good standability
- Produces yields and silage quality comparable to corn for silage and exceeds corn on marginal soils
- Yields 5,000 to 7,000 pounds per acre of red grain, resulting in a very high grain-to-stover ratio. This significantly increases digestible dry matter per acre when fed as silage. The high protein content and total digestible nutrients make CW 7700 perfect for the feedlot or dairy

**Appearance at Harvest Maturity**
- Crop height will be 6 to 8 feet tall with a strong stalk
- Dense, numerous, wide, dark-green leaves

**Seeding Rate Recommendations**
- Approximately 15,000 seeds per pound
- Irrigated: 10 pounds per acre in rows or drilled at 20 pounds per acre
- Dryland: 4 to 5 pounds per acre in rows or drilled at 15 to 20 pounds per acre
“This is our third year with Hi-Gest and we’re seeing a steady increase in the haylage digestibility numbers from our bunkers.”

Tim Magdanz
Magdanz Dairy, LLC
Pine River, WI