



**Alforex**  
Seeds  
2020



**Expect More.  
Get More.**

Product Guide – Plains/West

# Expectations raised...

**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.



# and met.

**A Commitment to Growing Progress** We bring our global presence, deep knowledge and diverse resources so that farms can flourish, moving our world forward.

**Dedicated to agriculture** Corteva Agriscience™ is the only major agriscience company completely dedicated to agriculture. By combining the strengths of DuPont Pioneer, DuPont Crop Protection and Dow AgroSciences, we've harnessed agriculture's brightest minds and expertise gained over two centuries of scientific achievement.

**Our Purpose** To enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

**Our values** We are driven by our beliefs and our purpose, which is to enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

**Enrich lives** We commit to enhancing lives and the land. As leaders, we pursue a purpose which goes beyond our immediate interests to benefit society.

**Stand tall** We are leaders who act boldly. We accept the challenges that confront our industry as our own and will step up to ensure that agriculture progresses and thrives.

**Be curious** We innovate relentlessly. We accelerate our pace of innovation to create solutions that will deliver abundant high-quality food, now and for the future.

**Build together** We grow by working together. We embrace diversity and collaboration in order to build one company and reach out across the food system, creating shared value.

**Be upstanding** We always do what's right, maintaining high ethical standards and conducting business safely and transparently.

**Live safely** We embrace safety and the environment in all we do.



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## Hi-Gest<sup>®</sup> ALFALFA TECHNOLOGY

Patents Pending

- ✓ **Elite, conventional genetics with improved rate and extent of fiber digestibility**
- ✓ **Elite genetics selected for high yield and quality, with a high leaf to stem ratio and more crude protein**
- ✓ **Elite genetics with a four year track record of on-farm performance**

### 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 potential, **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<sup>®</sup> 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, Fertilzona 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.



**“We keep our fields of Hi-Gest® in separate barns. When we deliver to our dairy customers, we tell them it’s Hi-Gest so they can adjust their ration to the higher feed values. One of our customers wants it for the hot months to keep his cows feed intake up and hold his milk production. Hi-Gest 360 really works for our operation and hay customers.”**

*Gerald Ziegler  
Ziegler Farms  
Alamosa, CO*

## Hi-Gest® Products

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## **YIELD** **Hi-Ton<sup>®</sup>** **PERFORMANCE ALFALFA**

- ✓ **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<sup>®</sup> Performance Alfalfa**

There are four Alforex alfalfa varieties that have earned the Hi-Ton<sup>®</sup> designation. These varieties are AFX 779, 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<sup>®</sup> alfalfa. Alforex alfalfa varieties carrying the Hi-Ton<sup>®</sup> designation are the first choice for the aggressive manager pushing their alfalfa acres to maximize seasonal dry matter yield.

Hi-Ton<sup>®</sup> varieties stand out in trials as they tend to be noticed for their regrowth ability when compared to other varieties. This is noticeable beginning with first cutting and each cutting throughout the year. Along the way, more of the season's total yield is harvested giving Hi-Ton varieties a performance advantage in the field.

**“Once we got the water and fertility right, it seemed genetics was holding our growers back, but as we have moved to varieties like 429, growers are getting more dairy quality hay and upping their yields too.”**

*Eli Bailey  
Seed Manager, Bingham Coop  
Blackfoot, ID*



## **Hi-Ton<sup>®</sup> Products**

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# Hi-Salt

SALINITY TOLERANT ALFALFA

- ✓ Reduces seedling loss during stand establishment
- ✓ Increases total farm yield
- ✓ Helps curb and remediate salinity

## Soil salinity's impact on yield

Salinity is a natural byproduct of irrigated and dryland agriculture in low rainfall areas. Over time, soluble salts move upward in the soil profile and when rainfall or irrigation are not sufficient to leach accumulating soluble salts from the root zone, salinity begins to interfere with crop growth.

Salinity of soil and irrigation water is usually measured and expressed as ECs or Electrical Conductivity. Soil with an EC range of less than 1.0 will have little effect on germination or yield. Soils with an EC measurement of 4.0 can increase seeding mortality by 35% and decrease yield by 15%. **For every EC point above a variety's salinity threshold, yield decreases by 7.5%.\***

## Alforex® Salinity Tolerant Alfalfa

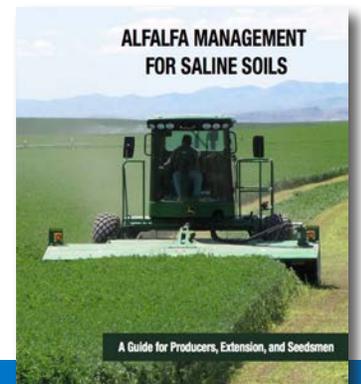
Through focused breeding, Alforex has developed salinity tolerant varieties that **reduce the impact of salinity by 2.0 to 3.0 EC points**. For a field with EC measurements approaching EC 4.0, the expected 35% seedling mortality and 15% yield loss can be reduced to a negligible amount.\*\* And for fields with even higher levels of salinity, varieties with the salinity tolerant trait have allowed producers to plant alfalfa in areas where it was otherwise thought to be impossible.

## Download the Guide

To learn more about alfalfa management for saline soils, visit [www.alforexseeds.com/agronomy/soil-salinity](http://www.alforexseeds.com/agronomy/soil-salinity) for access to a 24-page guide for producers, extension agents and seedsmen.

\* Maas, E.V. 1984. Salt Tolerance of plants. In Handbook of Plant Science in Agriculture (ed). B.R. Christie CRC Press Inc.

\*\* Benes, S., et. al., What Is The Ability Of Alfalfa To Sustain Saline Conditions? In Proceedings, 2014 California Alfalfa, Forage, and Grain Symposium, Long Beach, CA, 10-12 December, 2014. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA 95616. (See <http://alfalfa.ucdavis.edu> for this and other Alfalfa Symposium Proceedings.)



## Hi-Salt Products

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The HarvXtra® Alfalfa trait is the most advanced alfalfa trait on the market and the first genetically engineered alfalfa trait developed to maximize quality by reducing the amount of lignin in the plant compared to conventional alfalfa at the same stage of maturity.

For growers, this means they have the flexibility to produce higher-quality forage or delay harvest to maximize yield potential, depending on weather or operational needs.

### **Advanced Beyond Conventional Breeding**

The genetically engineered HarvXtra® Alfalfa trait technology improves alfalfa beyond what is possible through conventional breeding techniques. Gene suppression rewires the way alfalfa plants make lignin. This changes both the lignin content and its composition while maintaining the high-quality characteristics that matter most.

### **Stacked With Roundup Ready® Technology**

With the widest cutting window in the business combined with unsurpassed weed control, growers can get more higher-quality alfalfa.

### **Forage Quality**

By reducing the amount of lignin in the plant, the HarvXtra® Alfalfa trait technology fundamentally changes the relationship between forage quality and stage of maturity. Less acid detergent lignin (ADL) and higher neutral detergent fiber digestibility (NDFD) improves digestibility and can command a higher price per ton come harvest.

HarvXtra® Alfalfa provides on average 14 to 18 percent higher relative forage quality (RFQ) and NDFD across cuttings than conventional varieties harvested at the same stage of maturity.\*

### **Wider Cutting Windows, Higher Yield Potential**

Fewer cuttings have the potential for more yield over time, less stress and lower harvest costs. The HarvXtra® Alfalfa trait lets growers delay harvest for seven to 10 days to increase tonnage without sacrificing yield quality.

Farmers can achieve at least 20 percent higher yield potential\* by delaying harvest at 35-day cutting intervals. This is based on three cuttings at 35-day intervals compared to four cuttings at 28-day intervals, with the three-cut system yielding more over the life of the stand.

\*Data comes from FGI trials comparing HarvXtra® Alfalfa with Roundup Ready® Technology 2017 commercial varieties to commercial checks. Information is based on data from the 2017 commercial fall dormancy 4 (FD4) products available on the market. Trials were seeded in 2013 and harvested in 2014 and 2015 from Nampa, ID; Touchet, WA; Boone, IA; West Salem, WI; and Mt. Joy, PA.

## HarvXtra® Products

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WEED CONTROL

Roundup Ready® Alfalfa system provides the opportunity to deliver unsurpassed weed control with superior crop safety, allowing you to grow more, higher-quality alfalfa.

### **Better Stand During Establishment Means Better Stand Persistence**

Roundup Ready Alfalfa offers significant establishment advantage in both yield potential and quality. This is a result of improved weed control and crop safety through Roundup Ready PLUS® Crop Management Solutions.

### **Broadest Application Flexibility**

With the broadest application timing window plus excellent crop safety, Roundup Ready Alfalfa requires minimal waiting — only 5 days before grazing or harvest.

### **Increased, High-Quality Yield Opportunity**

Roundup Ready Alfalfa can deliver a higher percentage of pure alfalfa in hay and haylage than competitors, along with improved quality. Roundup Ready Alfalfa has low ADF (acid detergent fiber), low NDF (neutral detergent fiber) and high RFV (relative feed value).

HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® alfalfa with Roundup Ready® technology is enabled with technology from The Samuel Roberts Nobel Foundation, Inc. Genuity® and Roundup Ready® are registered trademarks used under license from Monsanto Company.

Do not export alfalfa seed or crops containing Genuity® Roundup Ready® technology including hay or hay products, to China pending import approval. In addition, due to the unique cropping practices, do not plant this product in Imperial County, California.

**Always Read and Follow Pesticide Label Directions.** Alfalfa with the Genuity® Roundup Ready® technology provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.

Corteva™ Agriscience is a member of Excellence Through Stewardship® (ETS).

Products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. For further information on the approval status of biotech traits, please visit [www.biotradestatus.com](http://www.biotradestatus.com).

Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

## **Roundup Ready® Products**

**AFX 463RR Brand -- page 12**

**Hi-Gest**  
**ALFALFA**  
 TECHNOLOGY

**Hi-Salt**  
 SALINITY TOLERANT ALFALFA

# AFX 1060

A patent pending variety

## Performance

- A high yield potential, non-dormant Hi-Gest variety with improved fiber digestibility for Southwestern U.S. commercial hay growers, dairymen and exporters
- A product of conventional plant breeding and selected for high leaf to stem ratio

## Management

- Responds to today's recommended alfalfa best management practices for low desert production areas
- A variety that offers management flexibility through the growing season to adjust to market needs
- Stable yield performance through the season with winter productivity comparable to other non-dormant varieties
- Use accurate feed sampling procedures to measure the advantage of the Hi-Gest technology. Rations using Hi-Gest alfalfa are easily balanced by nutritionists

## Appearance at Harvest Maturity

- Plants are medium-tall with a dense canopy of medium-dark green leaves and a visible high leaf-to-stem ratio
- Features broad crowns that are not typical for non-dormant varieties

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 10
Multifoliolate leaf expression:	Low
FastGrowth rating:	Very Fast
Salinity tolerance:	
Germination:	Tolerant
Forage production:	Tolerant

## Pest Package

HR	R	MR	LR	S
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### Diseases

	HR	R	MR	LR	S
Anthraxnose		●			
Aphanomyces-Race 1				●	
Bacterial wilt				●	
Fusarium wilt		●			
Phytophthora root rot		●			
Verticillium wilt		●			

### Insects

	HR	R	MR	LR	S
Blue alfalfa aphid		●			
Cowpea aphid	●				
Pea aphid		●			
Spotted alfalfa aphid	●				

### Nematode Resistance

	HR	R	MR	LR	S
Northern Root Knot	●				
Southern Rook Knot	●				
Stem nematode	●				

**Hi-Gest**  
**ALFALFA**  
 TECHNOLOGY

**Hi-Salt**  
 SALINITY TOLERANT ALFALFA

# AFX 960

A patent pending variety

## Performance

- A widely adapted, high yield potential fall dormancy 9 Hi-Gest variety with improved fiber digestibility, intake and extend of digestion for livestock producers around the world
- Consistent forage tests through the season for commercial growers and exporters
- A conventionally developed variety with stable performance from the first spring crop through the heat of summer to the last fall cut

## Management

- Responds to today's recommended best alfalfa management practices for non-dormant U.S. alfalfa production areas
- Higher forage quality from early bud stage through mid flower for management flexibility
- No known soil type or management limitations

## Appearance at Harvest Maturity

- Plants are tall, with a dense canopy of medium-green leaves spread down the stem resulting in a higher leaf-to-stem ratio and higher crude protein when compared to other semi-dormant varieties

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 9
Multifoliolate leaf expression:	Low
FastGrowth rating:	Very Fast
Salinity tolerance:	
Germination:	Tolerant
Forage production:	Tolerant

## Pest Package

HR	R	MR	LR	S
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### Diseases

	HR	R	MR	LR	S
Anthraxnose	●				
Aphanomyces-Race 1				●	
Bacterial wilt				●	
Fusarium wilt	●				
Phytophthora root rot		●			
Verticillium wilt			●		

### Insects

	HR	R	MR	LR	S
Blue alfalfa aphid	●				
Cowpea aphid	●				
Pea aphid	●				
Spotted alfalfa aphid	●				

### Nematode Resistance

	HR	R	MR	LR	S
Northern Root Knot	●				
Southern Rook Knot	●				
Stem nematode	●				

# Leafiness and Leaf to Stem Ratio is Key!

**Hi-Gest**  
**ALFALFA**  
 TECHNOLOGY

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.

# Hi-Gest® 660 Patented Variety

## Performance

- A high yield potential, Hi-Gest variety with improved fiber digestibility, intake and extent of digestion versus other semi-dormant alfalfas
- A product of conventional plant breeding with a variety patent - U.S. Patent No. 9,648,826
- Consistent, stable, on-farm performance since 2015

## Management

- Responds to today's recommended alfalfa best management practices
- Adapted to aggressive high quality or more relaxed high tonnage management systems
- Rations are easily balanced by a nutritionist with an accurate feed test to take advantage of this trait

## Appearance at Harvest Maturity

- Plants are medium-tall, very leafy and have more stems per crown than most semi-dormant alfalfas
- High leaf-to-stem ratio, and more crude protein than most other conventionally bred semi-dormant alfalfa varieties at harvest maturity

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 6
Multifoliate leaf expression:	High MF
FastGrowth rating:	1.86/Average
Salinity tolerance:	
Germination:	Tolerant
Forage production:	Tolerant

## Pest Package

HR	R	MR	LR	S
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### Diseases

Anthracnose	●				
Bacterial wilt		●			
Fusarium wilt	●				
Phytophthora root rot	●				
Verticillium wilt		●			

### Insects

Blue alfalfa aphid		●			
Cowpea aphid		●			
Pea aphid	●				
Spotted alfalfa aphid	●				

### Nematode Resistance

Northern Root Knot	●				
Southern Root Knot	●				
Stem nematode	●				

# AFX 460

A patent pending variety

## 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.

## 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

HR	R	MR	LR	S
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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

Northern Root Knot		●			
Stem nematode		●			

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

- 5 = Best
- 3 = Average
- 1 = Poor

# Hi-Gest® 360 A patent pending variety

## 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
- 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 hardiness class:	WS 1.5
Multifoliate leaf expression:	73%/Moderate MF
FastGrowth rating:	1.83/Average
Salinity tolerance:	
Germination:	Tolerant

## Pest Package

HR	R	MR	LR	S
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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

Northern Root Knot		●			
Stem nematode		●			



# AFX 579

## 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:	
Germination:	Tolerant

## Pest Package

HR	R	MR	LR	S
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Diseases	HR	R	MR	LR	S
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

Northern Root Knot		●			
Stem nematode	●				

# 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:	
Germination:	Tolerant

## Pest Package

HR	R	MR	LR	S
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Diseases	HR	R	MR	LR	S
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

Northern Root Knot		●			
Stem nematode	●				

# 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 hardiness class:	WS 2
Multifoliate leaf expression:	56%/Low MF
FastGrowth rating:	1.98/Average

## Pest Package

HR	R	MR	LR	S
----	---	----	----	---

Diseases	HR	R	MR	LR	S
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

Northern Root Knot		●			
Stem nematode		●			

# PGI 908-S

## Performance

- A high-yield potential, stable, non-dormant variety for hay, haylage or pasture across the Southwestern U.S.
- Features germination and forage production salinity tolerance
- Strong multiple pest package

## Management

- Handles the tougher or better soils when supported by best-management practices
- Consistent, stable yield from crop-to-crop and season-to-season; and medium or longer stand life
- Average recovery after harvest and days between harvests

## Appearance at Harvest Maturity

- Medium-tall plant height and good leaf density for this dormancy

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 9
Multifoliate leaf expression:	10%/Low MF
Salinity tolerance:	
Germination:	Tolerant
Forage production:	Tolerant

## Pest Package

Diseases	HR	R	MR	LR	S
Anthraxnose	●				
Bacterial wilt		●			
Fusarium wilt	●				
Phytophthora root rot	●				
Verticillium wilt		●			

## Insects

Blue alfalfa aphid	●				
Cowpea aphid		●			
Pea aphid	●				
Spotted alfalfa aphid	●				

## Nematode Resistance

Northern root knot	●				
Southern root knot	●				
Stem nematode		●			

# AFX 779

## Performance

- A high yield potential, semi-dormant Hi-Ton designated variety for California, Arizona, New Mexico and western Texas

## Management

- Stable yield performance into the later production years
- Adapted to five or six cut aggressive management systems
- Features salinity tolerance and a strong aphid resistance package
- Average regrowth, green-up recovery after cutting

## Appearance at Harvest Maturity

- Medium-tall plants with moderate ML expression

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 7
Multifoliate leaf expression:	Moderate
FastGrowth rating:	Average
Salinity tolerance:	
Germination:	Tolerant
Forage Production:	Tolerant

## Pest Package

Diseases	HR	R	MR	LR	S
Anthraxnose		●			
Bacterial wilt		●			
Fusarium wilt		●			
Phytophthora root rot		●			
Verticillium wilt		●			

## Insects

Blue alfalfa aphid	●				
Cow pea aphid	●				
Pea aphid	●				
Spotted alfalfa aphid	●				

## Nematode Resistance

Southern root knot	●				
Stem nematode	●				

# CISCO II

## Performance

- True fall-dormancy 6, semi-dormant variety with high yield and forage quality potential
- Germination and forage production salinity tolerance for tough soils
- Demonstrates spring frost tolerance

## Management

- Well adapted to the transitional zone between dormant and non-dormant alfalfas
- Fits the wide range of soil types, production practices and harvest systems found in the transitional zone
- Medium harvest maturity, fast recovery after harvest and persistence for medium and longer rotations

## Appearance at Harvest Maturity

- Medium-tall plants with good leaf density

## Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 6
Winter hardiness class:	WS 2
Multifoliate leaf expression:	Trifoliate
Salinity tolerance:	
Germination:	Tolerant
Forage production:	Tolerant

## Pest Package

Diseases	HR	R	MR	LR	S
Anthraxnose		●			
Aphanomyces-Race 1			●		
Bacterial wilt	●				
Fusarium wilt	●				
Phytophthora root rot	●				
Verticillium wilt	●				

## Insects

Blue alfalfa aphid		●			
Cowpea aphid		●			
Pea aphid	●				
Spotted alfalfa aphid		●			

## Nematode Resistance

Northern root knot	●				
Southern root knot		●			
Stem nematode		●			



# Notes

# PGI 529

# 405 BRAND

### Performance

- For growers who aggressively manage and harvest their alfalfa acres
- 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
- 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 leaves

### Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 5
Winter hardiness class:	WS 1
Multifoliate leaf expression:	31%/Low MF
FastGrowth rating:	2.21/Very Fast

### Pest Package

HR	R	MR	LR	S
----	---	----	----	---

#### Diseases

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

#### Insects

Blue alfalfa aphid			●		
Black cowpea aphid				●	
Pea aphid		●			
Spotted alfalfa aphid			●		

#### Nematode Resistance

Northern Rook 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

Yield rating:	2
Fall dormancy class:	FD 4
Winter hardiness class:	WS 2
Multifoliate leaf expression:	Moderate MF

### Pest Package

HR	R	MR	LR	S
----	---	----	----	---

#### Diseases

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

#### Insects

Pea aphid		●			
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# 322LH BRAND

## Performance

- Features genetic resistance to potato leafhopper injury to improve harvestable yield and forage quality

## Management

- Adapted to production acres that annually expect potato leafhopper injury and where chemical control isn't practiced
- Best adapted to three-cut or four-cut harvest or rotational grazing systems
- Performs well in mixtures with cool-season grasses or other legumes

## Appearance at Harvest Maturity

- Medium plant height, leafy canopy and medium-green leaves

## Agronomics

Yield rating:	2
Fall dormancy class:	FD 3
Winter hardiness class:	WS 2
Multifoliate leaf expression:	Moderate MF

## Pest Package

HR	R	MR	LR	S
----	---	----	----	---

### Diseases

Anthraxnose	●				
Aphanomyces-Race 1	●				
Bacterial wilt	●				
Fusarium wilt	●				
Phytophthora root rot	●				
Verticillium wilt	●				

### Insects

Potato leafhopper	●				
Blue alfalfa aphid	●				
Pea aphid		●			
Spotted alfalfa aphid	●				



## Yield Ratings:

Based on performance between Alforex Seeds varieties  
 5 = Best  
 3 = 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 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 Legendairy XHD and Artesia Sunrise, Fertizona Brand Fertillac, S&W Brands SW6330, SW7410 and SW10, and WL Brands WL 319HQ and WL 354HQ.

## Pest Resistance Ratings

% Resistant Plants	Resistance Class	Class Abbreviation
0-5%	Susceptible	S
6-14%	Low Resistance	LR
15-30%	Moderate Resistance	MR
31-50%	Resistant	R
>50%	High Resistance	HR



## Download a Product Sheet

Visit [www.alforexseeds.com/products](http://www.alforexseeds.com/products) to view and access a printable PDF for each Alforex alfalfa variety.

## 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

	5	4	3	2	1
--	---	---	---	---	---

Yield		•			
Maturity		•			
Palatability			•		
Digestibility			•		
Disease tolerance		•			
Stand density		•			
Winter hardiness	•				
Drought tolerance	•				
Grazing adaptability		•			
Fit grass/legume mix			•		
Leaf texture	•				

## 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

	5	4	3	2	1
--	---	---	---	---	---

Yield	•				
Maturity		•			
Palatability		•			
Digestibility		•			
Disease tolerance			•		
Stand density			•		
Winter hardiness		•			
Drought tolerance	•				
Grazing adaptability		•			
Fit grass/legume mix	•				
Leaf texture		•			

## Mercury BRAND Annual Ryegrass

### Cold Tolerant

#### Performance/Management

- Early-maturing annual ryegrass with cold tolerance for winter pasture in the southeastern U.S. or as early-harvest green-chop or silage, or as a cover crop in the northern half of the U.S.
- Adapted to over-seeding into fields or pastures of other species to boost yields and quality. Responds to fertility and timely management.
- Rust resistant

#### Seeding Rate Recommendations

- See chart below

#### Agronomics

	5	4	3	2	1
--	---	---	---	---	---

Yield	•				
Maturity					•
Palatability	•				
Digestibility	•				
Disease tolerance		•			
Stand density	•				
Winter hardiness				•	
Drought tolerance			•		
Grazing adaptability	•				
Fit grass/legume mix			•		
Leaf texture		•			

## Grasses and Mixtures Recommended Seeding Rates

Product	Bag Size	Seeding Method and Pounds Per Acre				
		Drilled Pure Stands	Broadcast Pure Stands	Interseeding	Over/Frost Seeding	Grass/Hay Mixture
Forte Brand Tall Fescue	25	25 to 30	30 to 35	10 to 15	10 to 15	5 to 8
Optima Brand Late Orchardgrass	25	20 to 25	25 to 30	10 to 15	10 to 15	4 to 5
Mercury Brand Annual Ryegrass	25	30 to 35	35 to 40	15 to 20	15 to 20	3 to 5

#### Agronomic and Mixture Ratings:

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

# Jetta BRAND Italian Ryegrass

*Cover Crop/  
Emergency Forage*

## Performance/Management

- Cool-season biennial for use as a late-summer/early-fall cover crop or as a late-spring planted nurse or forage crop
- Being a biennial, Jetta has a good chance of surviving winter, but will not put on a seed head when planted late spring
- Use lower seeding rate if using as a nurse crop to establish legumes

## Seeding Rate Recommendations

- See chart below

### Agronomics



Yield	●				
Maturity			●		
Palatability	●				
Digestibility	●				
Disease tolerance		●			
Stand density	●				
Winter hardiness		●			
Drought tolerance			●		
Grazing adaptability	●				
Fit grass/legume mix	●				
Leaf texture	●				

# Journey BRAND Perennial Ryegrass

*For Permanent Pastures*

## Performance/Management

- Cool-season, perennial ryegrass for use as pure stands or in mixtures for permanent pastures intended for 3 to 5+ productive harvest seasons
- Responds to fertility, adequate moisture and best grazing practices
- When planting with legumes or in mixtures with other grasses, reduce the seeding rate of Journey to prevent smothering by Journey's fast growth habit

## Seeding Rate Recommendations

- See chart below

### Agronomics



Yield	●				
Maturity		●			
Palatability	●				
Digestibility	●				
Disease tolerance	●				
Stand density	●				
Winter hardiness		●			
Drought tolerance			●		
Grazing adaptability	●				
Fit grass/legume mix	●				
Leaf texture	●				

# Titan 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



Yield	●				
Maturity	●				
Palatability	●				
Digestibility	●				
Disease tolerance		●			
Stand density		●			
Winter hardiness	●				
Drought tolerance				●	
Grazing adaptability		●			
Fit grass/legume mix	●				
Leaf texture		●			

## Grasses and Mixtures Recommended Seeding Rates

Product	Bag Size	Seeding Method and Pounds Per Acre				
		Drilled Pure Stands	Broadcast Pure Stands	Interseeding	Over/Frost Seeding	Grass/Hay Mixture
Jetta Brand Italian Ryegrass	25	30 to 35	35 to 40	15 to 20	15 to 20	3 to 5
Journey Brand Perennial Ryegrass	25	30 to 35	35 to 40	15 to 20	15 to 20	3 to 5
Titan Timothy	50	5 to 8	8 to 10	3 to 5	3 to 5	5 to 8
All Grass Pasture Mix	25	30 to 40	35 to 45	15 to 20	18 to 22	
Equine Brand Hay & Pasture Mix	25	30 to 40	35 to 45	12 to 18	15 to 20	
Charger Brand Teff Grass (34% coated)	50	8 to 10	10 to 12	4 to 5		

NOW AVAILABLE



**JOHN DEERE**  
FINANCIAL

## 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 on page 19

\*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 on page 19

\*Components are subject to availability and may change over time

## 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

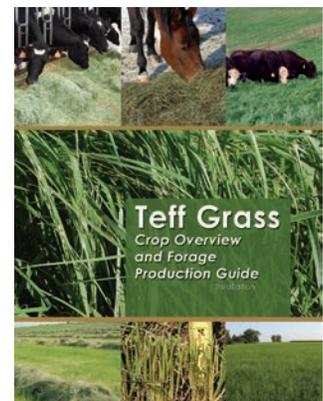
#### Agronomics

	5	4	3	2	1
--	---	---	---	---	---

Yield	●				
Maturity				●	
Palatability	●				
Digestibility	●				
Disease tolerance	●				
Stand density		●			
Winter hardiness					●
Drought tolerance		●			
Grazing adaptability				●	
Fit grass/legume mix					●
Leaf texture	●				

#### Seeding Rate Recommendations

- See chart on page 19



#### Download the Guide

To learn more about how to manage teff grass, visit [www.alforexseeds.com/products](http://www.alforexseeds.com/products) to view and/or download a printable PDF of the Teff Grass Crop Overview and Forage Production Guide.

### ALSO AVAILABLE:

Smooth Bromegrass  
Climax Timothy

VNS Medium Red Clover

#### Agronomic and Mixture Ratings:

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



# HayKing II Hybrid Sudangrass

**BMR**

## 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

# ForageKing Sorghum x Sudangrass

**BMR**

## Performance

- Warm-season, summer annual for multiple harvests as pasture, hay or silage
- Carries the brown mid-rib gene for improved forage quality, palatability and animal intake over non-BMR hybrids
- Excellent drought tolerance for low rainfall areas

## Management

- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is 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. 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

# PhotoKing Sorghum x Sudangrass

**BMR**

## 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

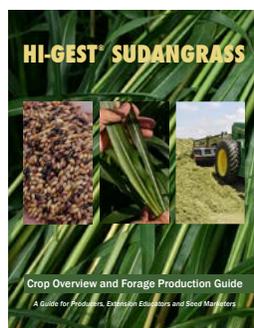
- Adapted to all areas of the U.S. where hybrid sorghum x sudangrass or hybrid sudangrass is grown
- Plant after the danger of frost and soil temperatures exceed 65°
- Leave a 3 to 4" stubble at harvest and apply 1 to 1.25 pounds of actual nitrogen for each day to the expected next harvest
- Follow all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



## 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.

# SweetKing Sorghum x Sudangrass

## *Conventional*

### 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

# DwarfKing Forage Sorghum

## *Brachytic BMR*

### 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

# CW 7700 Forage Sorghum

## *Conventional*

### 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

# SORGHUM

# Alforex Seeds

18369 County Road 96  
Woodland, CA 95695



Visit us at [www.alforexseeds.com](http://www.alforexseeds.com)  
or call us at 1-800-824-8585



Alforex Seeds Supports the U.S. Alfalfa Farmer Research Initiative managed by the National Alfalfa and Forage Alliance (NAFA). The goal of the initiative is to raise funds via a checkoff to invest in public research for alfalfa and alfalfa systems. The purchase of Alforex alfalfa contributes \$1 from each bag of seed to the U.S. Alfalfa Farmer Research Initiative for public research.



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