Premium Seed Catalog 2023

Sorghum Partners Hybrids
Double Team™ Sorghum Hybrids
Alfalfa Partners Varieties
Seeding the World

For over 40 years S&W Seed Company has provided the world’s farmers with the very best alfalfa and sorghum seed to maximize yields and profits. We are dedicated to breeding crops that mitigate the most difficult agronomic issues such as soil salinity, drought conditions, herbicide tolerance, pest and disease resistance, and many other challenging growing conditions. With the world’s population continuing to increase and the availability of arable land decreasing, S&W Seed Company works with growers—through both classical breeding and biotechnology initiatives—to offer the largest and most diverse platform of products and traits available.

Our innovative work with trait technology has developed hybrids and varieties with improved yield, not only in good soil conditions, but in some of the toughest soil conditions in the world—taking on unprecedented drought. We are committed to providing products resistant to the diseases and insects that pose problems for farmers, while ensuring enhanced digestibility for livestock producers. Our dedicated teams also develop technologies to make crops resistant to certain herbicides, offering farmers enhanced productivity.

Our expertise in agricultural breeding, production, and processing for both the sorghum and alfalfa industries is what sets us apart to provide industry-leading traits and technologies through our company brands: Sorghum Partners® and Alfalfa Partners®.

Introducing New and Better Products Faster

Crop innovation begins with elite germplasm. Over the next decade our expert team will expand our brands and offer new and innovative products for greater crop success.

In sorghum, our collection of more than 10,000 unique breeding lines, sourced from commercial, public, and wild collections now represents the most diverse collection of proprietary genetics in the industry. This unique germplasm is combined to create over 100,000 unique hybrid combinations, including industry-leading hybrid grain, forage, food grade, and sweet sorghum seed optimized for feed, food, and fuel markets. Our domestic testing programs range from Texas to South Dakota and from California to the Carolinas. We combine that work with data collected from our international locations in Mexico, South America, Europe, Asia, Africa, and Australia to help us refine our new product offerings.

Our alfalfa breeders continue to develop the most innovative, university-verified varieties available anywhere in the world. It takes many years to develop, test, and produce alfalfa varieties, depending on the methodology or traits being developed. We stay abreast of current trends through innovative research and development.

Over the past few years, we have expanded our production and treatment capabilities and now export seed from multiple production facilities in United States, Australia, South America, and Africa to over 40 countries around the world. We have the production capacity to ensure sufficient inventory to meet demand. With these resources, S&W is uniquely positioned to respond to changes in the market and committed to deploying its facilities, capabilities, and teams to deliver leading sorghum and alfalfa products to our industry.
Our Trait Development Leads the Industry
As our team continues to identify new traits and technologies that improve sorghum, next generation innovations are on the horizon. We now offer Double Team Sorghum with the herbicide tolerant DT® Trait, developed with non-GMO technology. Double Team Sorghum is part of the Double Team Sorghum Cropping Solution to control weeds and increase yields. We also have the exclusive license to develop the new dhurrin-free sorghum trait which will provide safer and tastier sorghum for cattle and other livestock.

Our Elite Brand is known for its innovative hybrids. Growers worldwide trust us to develop and deliver products that meet their most crucial needs:
• Increased yield
• Water scarcity and drought
• Standability
• Staygreen

Our Team is Focused Solely on Sorghum
Sorghum Partners is dedicated to your operation’s success. Our team is comprised of seasoned sorghum experts with decades of experience who have helped launch successful innovations to improve sorghum potential. We are committed to providing our customers industry-leading expertise, advanced agronomic support and the highest level of customer support. As a customer, you have access to experts who can answer questions on products, crop management, agronomy, sales, and marketing.

In October of 2018, Sorghum Partners became a proud member of the S&W brand legacy and will continue to carry on the mission of providing proprietary seed products that support the growing global demand for animal proteins and healthier consumer diets with grain, silage, and forage hybrids. Sorghum Partners has been producing quality seed for over 15 years. We operate a global breeding program for grain and forage sorghum from technology developed by S&W Seed Company. We partner with industry drivers and decision makers in the row crop and livestock feed markets to provide new and innovative solutions—creating an expansive market-leading product line:
• Grain sorghum hybrids with key traits that increase yield
• Silage sorghum hybrids that fit all livestock feeding needs
• Forage sorghum hybrids that deliver quality and yield
• Double Team™ sorghum hybrids with herbicide tolerance for grass weed control

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### Trait Technologies
Grain sorghum trait technologies address issues such as maximum insect and disease resistance, grain quality, harvest ability, drought and heat tolerance, and herbicide tolerance.

### DT Trait
The DT Trait inside Double Team sorghum was developed to tolerate FirstAct herbicides to allow for superior over-the-top weed control. Cleaner fields mean bigger yields.

### Stiff Stalk
Stiff stalk improves standability by increasing stalk rind thickness, for more structural strength and tolerance to stalk rots.

### Staygreen
Our Staygreen trait allows the plant to maintain green leaves under stress to produce carbohydrates through photosynthesis and reduce remobilization.

### Sugarcane Aphid Tolerant (SCA)
Our industry-leading SCA tolerant trait offers a range of protection from sugarcane aphids. Look for this SCA tolerance key:

<table>
<thead>
<tr>
<th>Trait Technology</th>
<th>Description</th>
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<tbody>
<tr>
<td>DT Trait</td>
<td>Tolerance to FirstAct herbicides, allowing superior over-the-top weed control. Cleaner fields mean bigger yields.</td>
</tr>
<tr>
<td>Stiff Stalk</td>
<td>Improved standability by increasing stalk rind thickness, for more structural strength and tolerance to stalk rots.</td>
</tr>
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<td>Staygreen</td>
<td>Maintains green leaves under stress to produce carbohydrates through photosynthesis and reduce remobilization.</td>
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<tr>
<td>SCA Tolerant</td>
<td>Tolerant trait offers a range of protection from sugarcane aphids.</td>
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### Grain Sorghum
Grain sorghum
Moderate

### DOUBLE TEAM
High

### Product Ratings
Grain sorghum

### PRODUCT RATINGS

<table>
<thead>
<tr>
<th>Product</th>
<th>Yield Goal</th>
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<th>Medium</th>
<th>Tall</th>
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### Seed Rates

<table>
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<tr>
<th>Variety</th>
<th>Seed Rate</th>
<th>Unit</th>
<th>Pounds/acre</th>
<th>Heads/acre</th>
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### Economic Returns
Contact us for details.
Grain Sorghum

SP 25C10
Very Early Maturity
SP 25C10 is an early hybrid with cream colored grain on a purple plant. This hybrid is very well adapted to the northern Plains and late planted double crop systems in the Great Plains. SP 25C10 is well suited for late disaster replant situations following infected or severely damaged stands. This hybrid adapts very well to shorter growing season environments, late plantings, and double crop scenarios. This hybrid has very good drought tolerance and above average stalk quality, along with strong stand establishment and seedling vigor. Does not mature with consistent, stable performance.

• Very good yield for early maturity
• Very good stalk quality
• Very good option for late planted double crop or disaster plantings
• Very good drought tolerance
• Recommended 15 inch rows or narrower

SP 31A15
Very Early Maturity
SP 31A15 is an early maturity grain sorghum with very good yield for maturity, average emergence and seedling vigour. This hybrid adapts very well to shorter growing season environments, late plantings, and double crop scenarios. It has very good drought tolerance and above average stalk quality. This hybrid is very well adapted to double crop or disaster plantings. It has above average stalk quality and can produce grain with very little precipitation. This hybrid performs well in dryland prone regions and can produce grain with high test weight.

• Excellent drought tolerance
• Correlate with heat very well
• Excellent standability
• Excellent yield for maturity
• Good eye appeal and uniformity
• Cream colored, food grade appearance
• Excellent panicle exertion under drought stress
• Stiff stalk and Staygreen traits
• Excellent for double plants dryland fields

SP 43M80
Medium-Full Maturity
SP 43M80 is a medium-early maturity grain sorghum with high staygreen and resistance to downy mildew pathotype 3, 5, and 6. SP 43M80 has good resistance to head smut and moderate tolerance to the white sugarcane aphid (SCA). SP 43M80 has above average stalk quality and an excellent fit for South Texas through the Plains.

• High yielding hybrid medium to early maturity
• Well-suited for South Texas through the Plains
• Bronze grain, excellent appearance
• Resistant to downy mildew pathotype 3, 5, and 6
• Widely-adapted

SP 68M57
Medium-Full Maturity
SP 68M57 is a medium maturity hybrid with high staygreen and resistance to downy mildew pathotype 1, 3, and 6. SP 68M57 is a high yielding and high white sugarcane aphid (SCA) hybrid. This hybrid has above average stalk quality and drought tolerance. SP 68M57 is an excellent fit for favorable dryland and irrigation in the High Plains with high yield potential.

• High yielding hybrid medium to early maturity
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Outstanding uniformity

SP 74M21
Medium-Full Maturity
SP 74M21 is a medium-full maturity hybrid with high staygreen and resistance to downy mildew pathotype 3, 5, and 6. SP 74M21 is a high yielding and high white sugarcane aphid (SCA) hybrid. This hybrid has above average stalk quality and drought tolerance. SP 74M21 is an excellent fit for favorable dryland and irrigation in the High Plains with high yield potential.

• High yielding hybrid medium to early maturity
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Outstanding uniformity

SP 7715
Medium-Full Maturity
This medium-full, cream grain hybrid has very high, stable yields with superior stalk quality and uniformity, all downy mildew pathotypes, and excellent sugarcane aphids. SP 7715 has a uniform appearance, a semi-open head, and very good threshability. Excellent standability and drought tolerance allows maximum yields across different growing environments. Well adapted to the Great Plains, Mississippi Delta, and East Coast regions.

• Very high yield potential
• Very good standability
• Excellent anthracnose tolerance
• Good greenbug resistance
• Excellent drought stress tolerance

SP 67B17
Medium-Full Maturity
SP 67B17 is a medium full maturity hybrid with high staygreen and resistance to downy mildew pathotype 3, 5, and 6. SP 67B17 is a high yielding and high white sugarcane aphid (SCA) hybrid. This hybrid has above average stalk quality and drought tolerance. SP 67B17 is an excellent fit for favorable dryland and irrigation in the High Plains with high yield potential.

• High yielding hybrid medium to early maturity
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Outstanding uniformity

SP 66M42
Medium-Full Maturity
SP 66M42 is a medium-full, bronze-colored grain hybrid with very high, stable yields and the highest level of SCA tolerance. It has a uniform appearance, a semi-open head. SP 66M42 is an excellent fit for Central and South Texas irrigated and high yielding dryland fields.

• High yielding hybrid medium to early maturity
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Uniformity

SP 72M42
Medium-Full Maturity
SP 72M42 is a medium-full, bronze-colored grain hybrid with very high, stable yields and heat tolerance. SP 72M42 has high yield potential and excellent panicle exertion under drought stress. This hybrid with cream colored, semi-compact head and excellent performance.

• High yielding in South Texas irrigated and favorable dryland fields
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Uniformity

SP 74M21
Medium-Full Maturity
SP 74M21 is a medium-full, cream colored grain hybrid with very high, stable yields and heat tolerance. SP 74M21 has high yield potential and excellent panicle exertion under drought stress. This hybrid with cream colored, semi-compact head and excellent performance.

• High yielding in South Texas irrigated and favorable dryland fields
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Uniformity

SP 7M21
Medium-Full Maturity
SP 7M21 is a medium-full, cream colored grain hybrid with very high, stable yields and heat tolerance. SP 7M21 has high yield potential and excellent panicle exertion under drought stress. This hybrid with cream colored, semi-compact head and excellent performance.

• High yielding in South Texas irrigated and favorable dryland fields
• Great seedling vigor
• Excellent drought tolerance
• High white sugarcane aphid tolerance
• High staygreen and Stiff stalk traits
• Excellent drought stress tolerance
• Uniformity
Double Team Grain Sorghum

How the Double Team® Solution Works

• DT® Trait inside Double Team sorghum provides herbicide tolerance
  • FirstAct® herbicide for superior over-the-top grass and weed control
  • Two reliable technologies integrate for superior yields and profits
  • Flexible solution designed with few rotational crop restrictions

Part 1: Double Team Sorghum Hybrids

Sorghum Partners’ Double Team hybrids come with S&W’s DT Trait inside—a technology developed specifically to tolerate quizalofop, the active ingredient in FirstAct herbicides. Our innovative, non-GMO, mutation-based lab techniques and rigorous testing programs have resulted in elite hybrids with the proven ability to undergo FirstAct applications, continue growing, and deliver unprecedented yields.

Part 2: FirstAct Herbicide

The FirstAct herbicide utilizes ADAMA’s proprietary formula for over-the-top grass and weed control. Part 2 of the Double Team Solution for improving sorghum profits in the U.S.

Part 2: FirstAct Herbicide

The FirstAct herbicide utilizes ADAMA’s proprietary formula for over-the-top grass and weed control. The FirstAct herbicide utilizes ADAMA’s proprietary formula for over-the-top grass and weed control.

The Double Team Solution

Integrating these two powerful and reliable technologies enables the Double Team Solution for improving sorghum profits in the U.S. This solution has few rotational crop restrictions while offering growers flexibility and crop selectivity. Double Team understands that each field is unique and provides ongoing support to address your individual needs.

SP 24C20 DT

• Early maturity hybrid with high yield potential. This hybrid is ideally suited for environments with shorter growing seasons and for double crop following wheat or other early harvested crops.
  • Tolerant to FirstAct® Herbicide
  • High yield for maturity
  • Excellent emergence
  • Good discussion tolerance
  • Good option for late planting or double crop

SP 30A30 DT

• Early maturity hybrid with high yield potential. This hybrid is ideally suited for mid-season areas in the Great Plains where higher soy pH levels may be a problem. Can also be utilized as double crop in areas with longer growing seasons.
  • Tolerant to FirstAct® Herbicide
  • High yield for maturity
  • Excellent emergence
  • Good discussion tolerance
  • Good for high pH soils

SP 31C06 DT

• Very uniform plant
  • Excellent emergence from cool soils
  • Staygreen for excellent standability
  • Moderately tolerant to SCA
  • Excellent emergence from cool soils

SP 31C06 DT

• Very uniform plant
  • Excellent emergence from cool soils
  • Staygreen for excellent standability
  • Moderately tolerant to SCA
  • Excellent emergence from cool soils

SP 45A45 DT

• Medium-early maturity hybrid with high yield potential. This hybrid is ideally suited for dryland acres in areas with longer growing seasons. Can also be utilized as a double crop in areas with longer growing seasons.
  • Tolerant to FirstAct® Herbicide
  • High yield for maturity
  • Excellent emergence
  • Good discussion tolerance
  • Very uniform plant

SP 45A45 DT

• Medium-early maturity hybrid with high yield potential. This hybrid is ideally suited for dryland acres in areas with longer growing seasons. Can also be utilized as a double crop in areas with longer growing seasons.
  • Tolerant to FirstAct® Herbicide
  • High yield for maturity
  • Excellent emergence
  • Good discussion tolerance
  • Very uniform plant
Silage Hybrids Decision Tree

Trait Technologies
Silage sorghum trait technologies address issues such as yield, digestibility, feeding efficiencies and nutrients.

Brachytic Dwarf (BD) Trait
These hybrids have shorter internodes, overall reduced plant height, reduced lodging, while maintaining yield potential.

Brown Mid-Rib (BMR) Trait
A genetic trait that lowers lignin content for increased plant digestibility, which leads to higher feeding efficiency and less manure.

Male Sterile (MS) Trait
Male sterile sorghum hybrids do not produce pollen or grain in most environments. Male sterile hybrids convert the carbohydrates that would have been grain starch in the stem as sugar. These sugars are quite stable when the hybrid is harvested and ensiled correctly.

Silage Hybrids Decision Tree

Growing Conditions Seed/acre
Adequate Moisture 100,000
Limited Moisture 70,000

Trait Technologies

Silage sorghum trait technologies address issues such as yield, digestibility, feeding efficiencies and nutrients.

Brachytic Dwarf (BD) Trait
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Legend:
T = Tolerant
MT = Moderately Tolerant
HT = Highly Tolerant
S = Susceptible
U = Undetermined
NA = Not Available

Ratings and descriptions are based on research and field observations from multiple locations over multiple years; comparisons with company products only.

Seeds per pound may vary due to environmental influences during production.

Breeding Rates

Common Stages

Product Ratings

<table>
<thead>
<tr>
<th>Product</th>
<th>Relative Maturity</th>
<th>Seeds Per Pound</th>
<th>Relative Height</th>
<th>BMR</th>
<th>Harvest (Days)</th>
<th>Yield (T)</th>
<th>Poeperiod</th>
<th>Early Growth Rate</th>
<th>Leafiness</th>
<th>Standability</th>
<th>Drought Tolerance</th>
<th>Stalk Sweetness</th>
<th>Anthracnose Tolerance</th>
<th>Sugars Per Pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP2774 BMR</td>
<td>Medium Early</td>
<td>13,000</td>
<td>8&quot;</td>
<td>Yes</td>
<td>100</td>
<td>2</td>
<td>No</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>15-19%</td>
<td>T</td>
<td></td>
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</tr>
<tr>
<td>SP3905 BD BMR</td>
<td>Medium Early</td>
<td>18,000</td>
<td>6&quot;</td>
<td>Yes</td>
<td>85-95</td>
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<td>No</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>15-20%</td>
<td>T</td>
</tr>
<tr>
<td>NK300</td>
<td>Medium Early</td>
<td>13,000</td>
<td>6&quot;</td>
<td>No</td>
<td>100-110</td>
<td>3</td>
<td>No</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>15-20%</td>
<td>S</td>
</tr>
<tr>
<td>SP1792 MS</td>
<td>Medium</td>
<td>19,000</td>
<td>7&quot;</td>
<td>No</td>
<td>95-100</td>
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<td>No</td>
<td>3</td>
<td>3</td>
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<td>15-20%</td>
<td>S</td>
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<tr>
<td>Wilium II</td>
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<td>8&quot;</td>
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<td>100-120</td>
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<td>3</td>
<td>15-20%</td>
<td>T</td>
</tr>
<tr>
<td>SP3904 BD BMR</td>
<td>Medium Full</td>
<td>17,000</td>
<td>6&quot;</td>
<td>No</td>
<td>100-110</td>
<td>2</td>
<td>No</td>
<td>2</td>
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<td>15-20%</td>
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<td>SP1737 MS BMR</td>
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<td>15-20%</td>
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<tr>
<td>SS34</td>
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<td>SS405</td>
<td>Full</td>
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<td>120-125</td>
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<td>S</td>
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<tr>
<td>SP1615</td>
<td>Full</td>
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<td>10-12&quot;</td>
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<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>15-20%</td>
<td>S</td>
</tr>
</tbody>
</table>

Deviation from normal planting date, cultural practices and growing conditions may affect performance and cause variation in characteristics.

Ratings and descriptions are based on research and field observations from multiple locations over multiple years; comparisons with company products only.

Seeds per pound may vary due to environmental influences during production.

It is important to be aware that all sorghum products are sensitive to photoperiod. Silage sorghum must be harvested before the dough stage from emergence. Seeds per pound may vary due to environmental influences during production.

SILAGE SORGHUM

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Product Ratings

Silage Hybrids Decision Tree

Growing Conditions Seed/acre
Adequate Moisture 100,000
Limited Moisture 70,000

Trait Technologies

Silage sorghum trait technologies address issues such as yield, digestibility, feeding efficiencies and nutrients.

Brachytic Dwarf (BD) Trait
These hybrids have shorter internodes, overall reduced plant height, reduced lodging, while maintaining yield potential.

Brown Mid-Rib (BMR) Trait
A genetic trait that lowers lignin content for increased plant digestibility, which leads to higher feeding efficiency and less manure.

Male Sterile (MS) Trait
Male sterile sorghum hybrids do not produce pollen or grain in most environments. Male sterile hybrids convert the carbohydrates that would have been grain starch in the stem as sugar. These sugars are quite stable when the hybrid is harvested and ensiled correctly.

Relative Maturity
Seeds per pound may vary due to environmental influences during production.
Silage Sorghum

SP2774 BMR MEDIUM-EARLY MATURITY
SP2774 is a brown mid-rib silage hybrid with good yields across several geographies, particularly in the Great Plains and Midwest. It matures in approximately 95-100 days. It is best positioned west of the Mississippi River, since susceptibility to gray leaf spot has been observed in the South. It may be used cautiously across several geographies, especially in the East when considering east. It may be used cautiously approximately 95-100 days.

- Strong yield in the Great Plains and Midwest
- Good positioning west of the Mississippi River
- 100 days to maturity
- Brown mid-rib (BMR) trait
- 7-8’ tall at maturity

SP3905 BD BMR MEDIUM-EARLY MATURITY
SP3905 BMR is an early maturing, brown mid-rib forage hybrid with good yields across several geographies, particularly in the Great Plains and Midwest. It matures in approximately 95-100 days. It is best positioned west of the Mississippi River, since susceptibility to gray leaf spot has been observed in the South. It may be used cautiously across several geographies, especially in the East when considering east. It may be used cautiously approximately 95-100 days.

- Earliest brachytic dwarf on the market
- Double crop silage option
- Very high stalk integrity
- Works well North of I-70

NK300 MEDIUM-EARLY MATURITY
NK300 is a best adapted and high yielding forage hybrid with good forage quality, high grain yield potential, and excellent standability. In many areas, it is grown for biomass ethanol production.

- Brown mid-rib, brachytic dwarf
- Harvest is 10-12 days after emergence
- Excellent standability
- High sugar content
- High tonnage yield performance.

SP1792 MS MEDIUM-EARLY MATURITY
SP1792 MS is a male sterile, brown mid-rib hybrid with good forage quality, high grain yield potential, and excellent standability. In many areas, it is grown for biomass ethanol production.

- Brown mid-rib, brachytic dwarf
- Harvest is 10-12 days after emergence
- Excellent standability
- High sugar content
- High tonnage yield performance.

Hikane II MEDIUM MATURITY
Hikane II is a sweet-stalked, medium maturing brown mid-rib hybrid with superior grain and forage quality. It is well adapted for all but the shorter, cooler growing seasons in the Northern Great Plains and northern latitudes of the Great Lakes. It adapts well in most soils and growing conditions from Texas through the central and northern latitudes of the Great Lakes. Hikane II yields 8-10’ in height and has very good standability. It can tolerate drought stress very well. Cut in the fall for winter forage and forage quality.

- Male sterile for high sugar production
- Excellent forage quality
- Good drought tolerance
- High sugar content
- High tonnage yield performance.

SP3904 BD BMR MEDIUM-FULL MATURITY
SP3904 BD BMR is a brown mid-rib forage hybrid with superior grain and forage quality. It is well adapted for all but the shorter, cooler growing seasons in the Northern Great Plains and northern latitudes of the Great Lakes. It adapts well in most soils and growing conditions from Texas through the central and northern latitudes of the Great Lakes. Hikane II yields 8-10’ in height and has very good standability. It can tolerate drought stress very well. Cut in the fall for winter forage and forage quality.

- Male sterile for high sugar production
- Excellent forage quality
- Good drought tolerance
- High sugar content
- High tonnage yield performance.

SP3904 BD BMR MEDIUM-FULL MATURITY
SP3904 BD BMR is a brown mid-rib forage hybrid with superior grain and forage quality. It is well adapted for all but the shorter, cooler growing seasons in the Northern Great Plains and northern latitudes of the Great Lakes. Hikane II yields 8-10’ in height and has very good standability. It can tolerate drought stress very well. Cut in the fall for winter forage and forage quality.

- Male sterile for high sugar production
- Excellent forage quality
- Good drought tolerance
- High sugar content
- High tonnage yield performance.

SS304 MEDIUM-FULL MATURITY
SS304 is a medium-full maturing, brown mid-rib forage hybrid with superior grain and forage quality. It is well adapted for all but the shorter, cooler growing seasons in the Northern Great Plains and northern latitudes of the Great Lakes. Hikane II yields 8-10’ in height and has very good standability. It can tolerate drought stress very well. Cut in the fall for winter forage and forage quality.

- Male sterile for high sugar production
- Excellent forage quality
- Good drought tolerance
- High sugar content
- High tonnage yield performance.

SS405 FULL MATURITY
SS405 is a late maturing, full maturing, brown mid-rib forage hybrid with superior grain and forage quality. It is well adapted for all but the shorter, cooler growing seasons in the Northern Great Plains and northern latitudes of the Great Lakes. Hikane II yields 8-10’ in height and has very good standability. It can tolerate drought stress very well. Cut in the fall for winter forage and forage quality.

- Male sterile for high sugar production
- Excellent forage quality
- Good drought tolerance
- High sugar content
- High tonnage yield performance.
### Forage Hybrids Decision Tree

#### Trait Technologies

Forage sorghum trait technologies address issues such as yield, digestibility, feeding efficiencies and nutrients.

- **Brachytic Dwarf (BD) Trait**
  These hybrids have shorter internodes, overall reduced plant height, reduced lodging, while maintaining yield potential.

- **Brown Mid-Rib (BMR) Trait**
  A genetic trait that lowers lignin content for increased plant digestibility, which leads to higher feeding efficiency and less manure.

- **Photoperiod Sensitive (PPS) Trait**
  Photoperiod sensitive plants have a very wide harvest window to allow for maximum management flexibility.

### Forage Sorghum

#### Growing Conditions

<table>
<thead>
<tr>
<th>Sorghum x Sudan Grass</th>
<th>Adequate Moisture</th>
<th>Limited Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP4105 BMR</td>
<td>15,000 8-10'</td>
<td>15 lbs/acre</td>
</tr>
<tr>
<td>SP7106 BMR</td>
<td>15,000 6-7'</td>
<td>10 lbs/acre</td>
</tr>
<tr>
<td>Sordan 79</td>
<td>10,500 6-7'</td>
<td>10 lbs/acre</td>
</tr>
<tr>
<td>Sordan Headless</td>
<td>10,500 7-9'</td>
<td>10 lbs/acre</td>
</tr>
<tr>
<td>SP6205 BD BMR</td>
<td>15,000 5-7'</td>
<td>10 lbs/acre</td>
</tr>
<tr>
<td>SP7106 BMR</td>
<td>15,000 6-7'</td>
<td>10 lbs/acre</td>
</tr>
<tr>
<td>SP6205 BD BMR</td>
<td>15,000 5-7'</td>
<td>10 lbs/acre</td>
</tr>
</tbody>
</table>

### Hybrid Type

<table>
<thead>
<tr>
<th>Hybrid Type</th>
<th>Seeds Per Pound</th>
<th>Relative Height</th>
<th>BMR</th>
<th>Early Growth Rate</th>
<th>Leafiness</th>
<th>Standability</th>
<th>Drought Tolerance</th>
<th>Stalk Sweetness</th>
<th>Anthracnose Tolerance</th>
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</thead>
<tbody>
<tr>
<td>SP4105 BMR</td>
<td>15,500 8-10'</td>
<td>Yes</td>
<td>2</td>
<td>Yes</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>U</td>
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<tr>
<td>SP7106 BMR</td>
<td>15,000 6-7'</td>
<td>Yes</td>
<td>2</td>
<td>Yes</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>U</td>
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<tr>
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<td>2</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>Sordan Headless</td>
<td>10,500 7-9'</td>
<td>No</td>
<td>2</td>
<td>No</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>3</td>
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<tr>
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<td>3</td>
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<td>3</td>
<td>4</td>
<td>U</td>
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<tr>
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<td>2</td>
<td>Yes</td>
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<td>1</td>
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### SEEDING RATES

<table>
<thead>
<tr>
<th>Hybrid Type</th>
<th>Seeds Per Pound</th>
<th>Relative Height</th>
<th>BMR</th>
<th>Early Growth Rate</th>
<th>Leafiness</th>
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<tr>
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<td>Yes</td>
<td>2</td>
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<tr>
<td>SP7106 BMR</td>
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<td>2</td>
<td>3</td>
<td>3</td>
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</tr>
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<td>Sordan 79</td>
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<td>No</td>
<td>2</td>
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<td>2</td>
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<tr>
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<td>1</td>
<td>3</td>
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</tr>
</tbody>
</table>

### Product Ratings

#### Rating System

- **RATINGS 1-9**
  - 1=Excellent
  - 5=Average
  - 9=Poor

#### Legend

- **T=Tolerant**
- **MT= Moderately Tolerant**
- **HT= Highly Tolerant**
- **S=Susceptible**
- **U=Undetermined**
- **NA=Not Available**

### Seedling Observations

- Dough stage from emergence. Seeds per pound may vary due to environmental influences during the production.

- Deviation from normal planting date, cultural practices and growing conditions may affect performance and cause variation in characteristics.

- Ratings and descriptions are based on research and field observations from multiple locations over multiple years; comparisons with company products only.

<table>
<thead>
<tr>
<th>Hybrid Type</th>
<th>Seeds Per Pound</th>
<th>Relative Height</th>
<th>BMR</th>
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### SEEDING RATES

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Forage Sorghum

**SP4105 BMR**
- **SORGHUM X SUDANGRASS PPS**
- Sp4105 will not head under most conditions; it will meet most summer forage needs. It is well suited for use as emergency feed. SP4105 is best used for hay, haylage, and green chop. Other uses include grazing and ground cover. SP4105 has a good leaf-to-stem ratio that helps provide good quality with proper management.
- Dependable summer forage with BMR
  - Can be grazed
  - Good for late summer planting
  - Good leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good seedling vigor
  - Good leaf-to-stem ratio
  - Good leaf to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**Sordan 79**
- **SORGHUM X SUDANGRASS**
- Sordan 79 is a hybrid with the best of both: a brown mid-rib sorghum x sudangrass hybrid that has both the brown mid-rib and brachytic dwarf genes which improve standability and forage quality. This hybrid is best used for hay, haylage, grazing, and green chop. Other uses include grazing and ground cover. Sordan 79 has a high leaf-to-stem ratio and produces high quality hay or haylage.
- Photoperiod Sensitive (headless) BMR
  - Dual purpose: silage or hay
  - Photoperiod sensitive (headless)
  - Excellent standability
  - High leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**Sordan Headless**
- **SORGHUM X SUDANGRASS PPS**
- Sordan Headless is an exceptional sorghum x sudangrass hybrid that has both the brown mid-rib and brachytic dwarf genes which improve standability and forage quality. This hybrid is best used for hay, haylage, grazing, and green chop. Other uses include grazing and ground cover. Sordan Headless has a high leaf-to-stem ratio and produces high quality hay or haylage.
- Photoperiod Sensitive (headless) BMR
  - Dual purpose: silage or hay
  - Photoperiod sensitive (headless)
  - Excellent standability
  - High leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**SP6205 BD BMR**
- **SORGHUM X SUDANGRASS PPS**
- This versatile brown mid-rib, sorghum x sudangrass can meet most summer forage needs. It is well suited for use as emergency feed. SP6205 is best used for hay, haylage, and green chop. Other uses include grazing and ground cover. SP6205 has a good leaf-to-stem ratio that helps provide good quality with proper management.
- Dependable summer forage with BMR
  - Can be grazed
  - Good for late summer planting
  - Good leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**SP7106 BMR**
- **SORGHUM X SUDANGRASS**
- SP7106 is a widely adapted sorghum x sudangrass hybrid that has both the brown mid-rib and brachytic dwarf genes which improve standability and forage quality. This hybrid is best used for hay, haylage, grazing, and green chop. Other uses include grazing and ground cover. SP7106 has a high leaf-to-stem ratio and produces high quality hay or haylage.
- Photoperiod Sensitive (headless) BMR
  - Dual purpose: silage or hay
  - Photoperiod sensitive (headless)
  - Excellent standability
  - High leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**Trudan 8**
- **SUDANGRASS**
- Trudan 8 is an exceptional sorghum x sudangrass hybrid that has both the brown mid-rib and brachytic dwarf genes which improve standability and forage quality. This hybrid is best used for hay, haylage, grazing, and green chop. Other uses include grazing and ground cover. Trudan 8 has a high leaf-to-stem ratio and produces high quality hay or haylage.
- Photoperiod Sensitive (headless) BMR
  - Dual purpose: silage or hay
  - Photoperiod sensitive (headless)
  - Excellent standability
  - High leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**Trudan Headless**
- **SUDANGRASS**
- Trudan Headless is an exceptional sorghum x sudangrass hybrid that has both the brown mid-rib and brachytic dwarf genes which improve standability and forage quality. This hybrid is best used for hay, haylage, grazing, and green chop. Other uses include grazing and ground cover. Trudan Headless has a high leaf-to-stem ratio and produces high quality hay or haylage.
- Photoperiod Sensitive (headless) BMR
  - Dual purpose: silage or hay
  - Photoperiod sensitive (headless)
  - Excellent standability
  - High leaf-to-stem ratio
  - Excellent regrowth after haying or grazing
  - Good for late summer planting
  - Good for alfalfa stands (well-tolerated)
  - Can be used in rotation to reduce nematode populations

**Millex 32**
- **PEARL MILLET**
- Millex 32 is a hybrid pearl millet that produces high-quality forage that is lush and tasty. This hybrid works in hot, dry conditions and is well suited for light, sandy soils where drought is common. Millex 32 is well suited for summer grazing or hay and greenchop. Millex 32 is a great horse feed as a result of its mineral and provitamin A content.
- **PEARL MILLET**
  - Adapts well to intensive grazing
  - Tolerates high cutting frequencies and intensive grazing practices with management. Exceptional forage quality can be produced that is high in protein and digestible fiber. Prosson acid potential is low.
  - Photoperiod sensitive (headless)
  - Excellent quality forage
  - Very good leaf-to-stem ratio
  - Good for hay, haylage, and grazing
  - Excellent regrowth after haying or grazing
  - Can be used in rotation to reduce nematode populations

Forage Sorghum
Alfalfa Partners

Since 1980 S&W Seed Company has bred alfalfa seed of the highest quality with superior genetic traits. With the unique ability to grow in challenging soil conditions and generate outstanding crop yield, S&W quickly became an industry leader. Our specialty is high-yield alfalfa varieties focused on maximizing profit per acre for the farmer, regardless of soil and water salinity. In 2010, we dramatically expanded both the acreage dedicated to alfalfa production and our R&D focus to include dormant and biotech varieties. Our breeding and product development emphasizes high yield, forage quality improvement, persistence, and disease and pest resistance.

We continue to stay abreast of important trends, helping farmers combat today’s farming challenges and supplying superior seed for alfalfa hay, the “queen of forages,” all the while keeping an eye on sustainable solutions for tomorrow.

Expanding Products and Programs

In 2012, S&W acquired Imperial Valley Seed to expand production in this rich California growing region and in 2013, Seed Genetics International (SGI) was acquired, further expanding production capabilities into Australia. In late 2014, we acquired Pioneer’s alfalfa breeding program and conventional alfalfa germplasm—providing a strong germplasm base that goes all the way back to 1958. Alfalfa Partners brings you top-performing alfalfa varieties developed through a long breeding legacy, at a more affordable price with a better value proposition than established national brands.

All along our mission has been to help cattle and dairymen produce the best alfalfa hay for their herds. So, in 2019 we branded our product line as Alfalfa Partners, to embody the essence of our mission and our accomplishments over the last 40 years.

Our Germplasm Improvement Program Delivers

• Outstanding root rot tolerance for areas with variable soils
• High-yielding varieties with emphasis on disease and pest resistance
• Increased emphasis on forage quality improvement
• Salt-tolerant varieties spanning FD4 through FD9 with proven performance
• Proven performance in both saline and non-saline soils
• Dormant and non-dormant breeding programs with a lifetime of germplasm improvement
• Dedicated seed production locations in the US and Australia

Our dormant alfalfa breeding program involves screening, crossing, and classification for each new variety. In each phase, teams in Nampa, Idaho and Keith, South Australia are busy year-round in the field or greenhouse settings. A typical variety can take 5 to 18 years to produce, depending on the methodology or traits being developed.

We conduct extensive testing across numerous environments for yield, forage quality, yield stability across environments, dormancy, tolerance to lodging, and regrowth from cutting. We also test up to 18 types of pest resistance, such as phytophthora root rot, apthymyces root rot, and stem nematode. Each of our commercial varieties has been developed through this same process of germplasm improvement, characterization for agronomic and pest ratings, yield, and winter hardiness—for the highest productivity in your fields.

Our Team is Focused Solely on Alfalfa

Our team is comprised of seasoned alfalfa experts with decades of experience. We are dedicated to your success and available to help in any way we can. Customers have access to our experts for questions on products, crop management, agronomy, sales, and service.

IQAs, the Next Innovation

Our future alfalfa varieties will soon include IQA®, a reduced lignin alfalfa quality trait, achieved through gene editing. It’s integrated into elite alfalfa germplasm for both yield and improved forage quality performance. Growers may have the flexibility to harvest later on without the typical rate of reduction in forage quality that occurs with conventional varieties, or they can cut on their normal schedule to potentially capture higher RFQ and increased fiber digestibility. IQA can offer an extended harvest window with improved forage quality. Please consult with Alfalfa Partners for availability in your region and whether your specific growing environment may be sensitive to a gene-edited trait.
**Rugged Rancher**

**Dormant Alfalfa**

**SW3407**

**Brand**

SW3407 is a high-yielding F03 variety that produces excellent quality haylage. It is a great choice for rotational environments and non-saline growing conditions. SW3407 is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance against stem nematode**
- **Well adapted to soils with moderate to high salinity**
- **High resistance to potato leafhopper**

**SW404S**

**Brand**

SW404S is a blend of S&W alfalfa germplasm containing an elite salt tolerant variety along with high-yielding, winterhardy conventional alfalfa. SW404S is adapted to both saline and non-saline growing conditions. It is a great choice for rotational environments and non-saline growing areas. SW404S is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent forage quality and persistence over a period of years following inoculation with major alfalfa disease organisms**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to phytophthora root rot**
- **Good forage quality and quantity of hay or forage**
- **High resistance against stem nematode**
- **Well adapted to soils with moderate to high salinity**
- **High resistance to potato leafhopper**

**SW4107**

**Brand**

SW4107 is a broad adapted variety with wide geographic adaptation. SW4107 is highly resistant to several major alfalfa pests and diseases and well suited to fields with variable drainage where root nematode is an issue.

- **Excellent forage quality and persistence**
- **High resistance to phytophthora root rot**
- **Well adapted to soils with moderate to high salinity**
- **High resistance against stem nematode**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW425S**

**Brand**

SW425S is a FD4 variety with high yield potential and high resistance to stem nematode. This variety has excellent persistence under a wide range of growing conditions and environments. It is a great choice for rotational environments and non-saline growing conditions. SW425S is adapted to both saline and non-saline growing conditions. It is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW415S NEW!**

**Brand**

SW415S is a new variety released in the fall of 2022. It is a FD4 variety with high yield potential and high resistance to stem nematode. This variety has excellent persistence under a wide range of growing conditions and environments. It is a great choice for rotational environments and non-saline growing conditions. SW415S is adapted to both saline and non-saline growing conditions. It is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW4618S**

**Brand**

SW4618S is a high-yielding, fall dormancy four variety, bred in saline growing conditions and selected for its ability to maintain improved production of hay in saline soils.

- **Well adapted to Western US F04 growing areas with variable salinity and irrigation water quality**
- **Highly resistant to major major alfalfa pests and diseases for a solid 3-5 year period**
- **Excellent forage quality and quantity of hay or forage**
- **High resistance to potato leafhopper**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW2123**

**Brand**

SW2123 is a high-yielding, fall dormancy four variety, bred in saline growing conditions and selected for its ability to maintain improved production of hay in saline soils.

- **Well adapted to saline growing areas with variable salinity and irrigation water quality**
- **Highly resistant to major major alfalfa pests and diseases for a solid 3-5 year period**
- **Excellent forage quality and quantity of hay or forage**
- **High resistance to potato leafhopper**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW2513**

**Brand**

SW2513 is a high-yielding, fall dormancy four variety, bred in saline growing conditions and selected for its ability to maintain improved production of hay in saline soils.

- **Well adapted to Western US F04 growing areas with variable salinity and irrigation water quality**
- **Highly resistant to major major alfalfa pests and diseases for a solid 3-5 year period**
- **Excellent forage quality and quantity of hay or forage**
- **High resistance to potato leafhopper**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW2525**

**Brand**

SW2525 is a highly adapted variety, resistant to high yield potential with excellent pest resistance: potato leafhopper, phytophthora, and multi-race pathogens. SW2525 is a highly resistant variety for saline and non-saline growing areas. SW2525 is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW5615 NEW!**

**Brand**

SW5615 is a very high yield potential, fall dormancy 5 variety with strong performance record in research trials across a wide area. The combination of excellent winter survival index and high yield potential, gives SW5615 a sigp on stand persistence.

- **Well adapted to saline growing areas with variable salinity and irrigation water quality**
- **High resistance to phytophthora root rot**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**
- **Well adapted to soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW5615 NEW!**

**Brand**

This alfalfa variety is a FD5 variety with high yield potential and high resistance to stem nematode. It is a great choice for rotational environments and non-saline growing conditions. SW5615 is adapted to both saline and non-saline growing conditions. It is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to potato leafhopper**

**SW5615 NEW!**

**Brand**

This variety is a FD5 variety with high yield potential and high resistance to stem nematode. It is a great choice for rotational environments and non-saline growing conditions. SW5615 is adapted to both saline and non-saline growing conditions. It is a winter hardy variety, offering excellent persistence under variable environmental conditions.

- **Excellent overall quality with improved stand longevity**
- **Excellent adaptability to a wide range of growing environments**
- **Good forage quality and quantity of hay or forage**
- **High resistance to phytophthora root rot**
- **Well suited for soils with variable irrigation water quality**
- **High resistance to potato leafhopper**
Non-Dormant Alfalfa

### Non-Dormant Alfalfa

**SW8421S**
**FALL DORMANCY 8**

This FD8 variety has a very wide area of adaptation with above average forage quality, and is tolerant to saline irrigation waters and saline soils.

- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Highest yielding salt tolerant variety in multiple University trials**
- **Strong choice for fields that contain slick or sodic soils, and also for situations where deficit irrigation could lead to salinity build-up.**
- **Using irrigation water with an Electrical Conductivity (EC) rating of 15 (very salty water), SW 8421S out-produced both the standard salinity check entry (AZ-90NDC-ST) and Salado by 39% and 32% respectively in University of Arizona salinity trials at Tucson**
- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
- **Alfalfa growth is erect with rapid recovery after cutting**
- **Stand persistence at the end of the 3 year trial in Torrance, Arizona was 90%, compared to CUFS variety at 61%**

**SW9720**
**FALL DORMANCY 9**

**SW9813S**
**FALL DORMANCY 9**

This variety has high resistance to aphids compared to its strong forage production abilities.

- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
- **Alfalfa growth is erect with rapid recovery after cutting**
- **Stand persistence at the end of the 3 year trial in Torrance, Arizona was 90%, compared to CUFS variety at 61%**

### Product Ratings

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### FALL DORMANCY

1 = Most Dormant 10=Least Dormant

### YIELD

1 = Lowest Yield 10= Highest Yield

### WINTER SURVIVAL

1 = Extremely Hardy 2 = Very Hardy

### PEST AND DISEASE

HR = Highly Resistant
R = Resistant
MR = Moderately Resistant
LR = Low Resistance
S = Susceptible
Blank = Insufficient Data or Not Applicable

**SW8421S**
- **FALL DORMANCY 8**
- **High yield potential in both saline and non-saline soil conditions.**
- **This variety's high resistance to aphids contributes to its strong forage production abilities.**
- **Proven performance in U of CA Moisture Alfalfa Salinity Trials**
- **High yield performance potential, in both saline and non-saline soil conditions**
- **Selected under extreme saline conditions in the west side of the San Joaquin Valley**
- **Very good germination salt tolerance plus strong forage production salt tolerance**
- **Very good overall aphid resistance including blue aphids, pea aphids and spotted aphids**

**SW9720**
- **FALL DORMANCY 9**
- **Highly resistant to aphids compared to its strong forage production abilities.**
- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

**SW9813S**
- **FALL DORMANCY 9**
- **High yield potential in both saline and non-saline soil conditions.**
- **This variety's high resistance to aphids contributes to its strong forage production abilities.**
- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
- **Alfalfa growth is erect with rapid recovery after cutting**
- **Stand persistence at the end of the 3 year trial in Torrance, Arizona was 90%, compared to CUFS variety at 61%**

**SW9405 Brand**
- **FALL DORMANCY 9**
- **High yield potential in both saline and non-saline soil conditions.**
- **This variety's high resistance to aphids contributes to its strong forage production abilities.**
- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
- **Alfalfa growth is erect with rapid recovery after cutting**
- **Stand persistence at the end of the 3 year trial in Torrance, Arizona was 90%, compared to CUFS variety at 61%**

**SW109**
- **FALL DORMANCY 9**
- **High yield potential in both saline and non-saline soil conditions.**
- **This variety's high resistance to aphids contributes to its strong forage production abilities.**
- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
- **Alfalfa growth is erect with rapid recovery after cutting**
- **Stand persistence at the end of the 3 year trial in Torrance, Arizona was 90%, compared to CUFS variety at 61%**

**SW8421S**
- **FALL DORMANCY 8**
- **High yield potential in both saline and non-saline soil conditions.**
- **This variety's high resistance to aphids contributes to its strong forage production abilities.**
- **Wide area of adaptation**
- **Tolerant to saline irrigation waters and saline soils**
- **Highest yielding alfalfa in UC Davis Trial of 49 non-dormant entries for 2008**
- **3.3% higher yield than CLF101 at University of Arizona trials**
- **Lourder in yield and feed quality than the USDA saline laboratory trial entries alfalfa and other forage grasses under saline water irrigation management at Riverdale, CA**

- **Produced 18% more hay than CUFS in the UC trials in Fresno County, California and 17% more than CUFS in Torrance, Arizona**
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