Alta seeds

2022 FORAGE SORGHUM GUIDE

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HYBRIDS FOR EVERY ENVIRONMENT AND OPERATION

AT ALTA SEEDS, WE DON'T JUST PROVIDE QUALITY HYBRIDS. WE PROVIDE INNOVATIVE SOLUTIONS.

Our carefully developed, high-performing hybrids are designed to meet your individual challenges. From the full lineup of grain and forage sorghum to sorghum-sudangrass, sudangrass and pearl millet, our portfolio offers top-producing seeds with cutting-edge characteristics — all to enhance and streamline your operation from planting to harvest.

In the groundbreaking Global Biotechnology Center in Texas and across the world, our breeders are setting the standards for seed treatments, herbicide resistance, and aphid, drought and other stress tolerance while developing new solutions to tackle tough challenges on the farm. Our global pipeline allows us to more efficiently meet your needs, and our expansive team of sorghum experts is always at the ready to offer assistance and help you make the best choices for your acreage and environment.

In this guide you'll meet our newest forage sorghum development, **EMPYR igrowth ADV F8484IG: the world's first herbicide-tolerant, non-GMO forage sorghum and a member of the EMPYR™ Premier Forages line of top-performing hybrids.** This brand new forage sorghum hybrid contains the high-performing genetics of EMPYR along with non-GMO igrowth™ technology that allows you to apply companion herbicides pre- and post-emergence. You'll also learn about the rest of the EMPYR line, with hybrids that feature Alta Seeds' advanced technologies, like Aphix™ elite sugarcane aphid tolerance and Vertix™ seed treatments that help you get the best return on your investment.

All of our forage sorghum hybrids are designed to help you lower input costs and exceed production goals per acre. Traits like BMR-6, brachytic dwarf, dry stalk and photoperiod sensitivity give you options to choose exactly what you need in order to boost natural drought tolerance and water use efficiency.

SORGHUM FOR FORAGE

Alta Seeds offers a wide variety of forage sorghum hybrids that deliver high tonnage, digestibility and palatability. Choose from a number of traits that enhance feed qualities, from BMR-6 to brachytic dwarf to dry stalk and photoperiod sensitivity.

Our forage sorghum hybrids also offer a cost-effective alternative to corn silage. With lower overall input costs required and the ability to thrive in dry climates with no irrigation, these hybrids are the ideal and economical way to replace corn silage in your operation.

Alta Seeds offers a world-class lineup of forages that consistently outperform their peers. EMPYR Premier Forages are our top-of-the-line hybrids that offer the best feed qualities, along with excellent standability and climate versatility. Choose from this exclusive product line to see the best possible results both in your field and in feed.

FORAGE SORGHUM

Forage sorghums are generally taller, produce more leaves and are later maturing than typical grain sorghum hybrids. Forage sorghums can produce very high biomass yields but have limited regrowth potential, making them excellent choices for single-cut silage and standing green-chop production uses. For optimum forage with grain, harvest should begin when 80% or more of heading has occurred and 50% of the grain reaches the soft dough stage.

In addition to their production advantages, forage sorghums also function as an excellent alternative to corn silage. They perform even in dry climates with little to no irrigation, require lower input costs and provide comparable nutrition to corn, making forages a highly cost-effective silage.

SORGHUM-SUDANGRASS

Sorghum-sudangrass hybrids characteristically have smaller stalks than forage sorghum and strong tillering, and produce more tonnage than sudangrass. They have excellent regrowth potential, but less than sudangrass. The regrowth ability of sorghum-sudangrass hybrids make them well-suited for multiple harvest systems.

SUDANGRASS

Sudangrass has finer stalks and produces more leaves and tillers than typical forage sorghum. It possesses excellent regrowth, plus quick recovery following cutting or grazing. Total biomass tonnage for a single harvest generally will be less than yields of forage sorghum. Sudangrass is primarily used for grazing and hay production and can serve as an excellent cover crop.

For the best quality and yield under a multi-cut program (including sorghum sudangrass), harvest at 40 days or 40″ of growth. Mechanical harvesters should be set to leave two nodes and 4″ for brachytic or 6″ of stubble for non-brachytic, whichever is higher. Harvesting at this height will promote more rapid regrowth. At the latest, harvest when 50% of the plants have reached the flag-leaf stage for a one-cut program. Under a one-cut program, cutting height can be lowered to maximize yields. Opening the swather for a wide windrow promotes drying. If grazing, cattle should be turned in at approximately 24″ of growth, and grazing should be stopped when height is reduced to 6″ to promote rapid and adequate regrowth.

SORGHUM FOR FORAGE

FORAGE CHARACTERISTICS

BRACHYTIC DWARF

Four dwarfing genes in sorghum control height. These brachytic dwarfism genes reduce the length of the internodes without affecting other plant characteristics such as leaf number, leaf size, maturity or yield/biomass production. Brachytic dwarf sorghums have very high leaf-to-stalk ratios, prolific tillering, superior standability and comparable tonnage to normal height sorghums.

For the best quality and yield under a one-cut program, cutting height can be lowered to maximize yields. Opening the swather for a wide windrow promotes drying.

Under a multicut program, harvest sorghum-sudangrass or sudangrass at 40 days or 40″ of growth. Due to the compressed internode lengths, mechanical harvesters should be set to leave two nodes or 4″ of stubble, whichever is higher. Harvesting at this height will promote more rapid regrowth. At the latest, harvest when 50% of the plants have reached the flag-leaf stage for a one-cut program.

Begin grazing brachytic dwarf sorghum-sudangrass and sudangrass at about 18″ of growth, and stop when height is reduced to 4″ to promote regrowth.

BMR-6

BMR-6 sorghums have less lignin than conventional sorghums and are extremely palatable. The high digestibility rivals corn silage as the choice for improved animal performance.

DRY STALK

Dry stalk hybrids allow growers to ensile or bale at reduced moisture levels with less opportunity for spoilage. When harvested at the soft dough stage, dry stalk forage sorghums have approximately 8% to 10% less moisture at harvest. Dry stalk sudangrass hybrids can be stored much sooner as baleage or haylage than non–dry stalk types and can be harvested as dry hay.

PHOTOPERIOD SENSITIVE (PS)

PS sorghums have a wide window for harvest. The PS sorghums initiate flowering in response to day length and will remain vegetative from mid-March through September, adding new leaves and maintaining very high-quality forage. The flexible harvest window of PS sorghum helps growers manage weather or custom harvest scheduling.

WORLD-CLASS FORAGE SORGHUM LINEUP

DISCOVER THE WORLD-CLASS HYBRIDS THAT PROVIDE THE BEST VALUE AND RETURN ON YOUR DOLLAR:

Not all forage sorghum seeds are equal in their performance. But with EMPYR Premier Forages from Alta Seeds, you can have confidence that your choice of forage will deliver excellent results year after year.

EMPYR Premier Forages are our top-of-the-line, carefully selected hybrids that consistently outperform and outproduce the others in their class in field and in feed. Our team continually evaluates the performance of these products against others in our global pipeline to ensure that only the best of the best are included in the EMPYR group. These forages offer high yield, excellent standability and strong performance even in extreme environments.

WORLD-CLASS GENETICS AND INNOVATION

OUTPERFORMS IN FIELD AND FEED

EXCELLENT QUALITY AND TONNAGE

The EMPYR line is built on a wide variety of hybrid types that provide solutions for specific grazing or silage needs:

Aphix™ SCA Tolerance, the best-in-class option for combating pressure from sugarcane aphids

BMR-6 for increased palatability and digestibility, supporting more weight gain and milk production

Brachytic Dwarf for superior standability and high leaf-to-stalk ratios

Photoperiod Sensitivity (PS) for a wide harvest window

Dry Stalk for reduced moisture levels, for earlier baling and storage

ADV F8484IG

NEW

MEDIUM SEASON SILAGE WITH GRAIN

igrowth

Ideal selection for producers looking for next-generation technology and superior yield potential. Conventional midrib with brachytic dwarf characteristic brings great standability and harvest performance for those looking to feed silage. igrowth herbicide-resistant technology allows for a clean stand establishment for maximum early season growth and weed suppression.

ADV F8322

MID-SEASON APHIX FORAGE SORGHUM

aphix™ SCA Tolerance

An excellent forage sorghum with Aphix-level, elite sugarcane aphid tolerance and a high degree of versatility in various climates.

ADV F7103

EARLY-SEASON BMR-6 FORAGE SORGHUM

Fast, efficient and innovative. Early maturity combined with dry-stalk technology provides an option for short-season regions. Available in BMR-6, so no sacrificing on late plantings or double crop situations.

ADV F7232

MID-SEASON BMR-6 BRACHYTIC DWARF FORAGE SORGHUM

An earlier option BMR-6 brachytic dwarf with excellent nutritional value and palatability; matures quickly while still maintaining quality and yield; suitable for irrigated and dryland areas.

ADV F7424

NEW

FULL-SEASON BMR-6 WITH SCA TOLERANCE

aphix™ SCA Tolerance

ADV F7424 brings a jump in yield potential while maintaining everything we loved about its predecessor, AF7401. Excellent standability, top-notch quality feed, and now featuring our Aphix™ SCA tolerance. This is the benchmark of all high-yielding forage sorghum products in the lineup.

ADV S6404

FULL-SEASON BRACHYTIC DWARF BMR-6 SORGHUM-SUDANGRASS

High-powered and compact sorghum-sudangrass with brachytic dwarf. Next-level tonnage, great feed quality and strong standability. Top performer in multicut scenarios, silage, hay or grazing. Cattle producers' best friend for versatility and production.

ADV S6520

PHOTOPERIOD SENSITIVE BMR-6 SORGHUM-SUDANGRASS

aphix™ SCA Tolerance

Game-changing combination of agronomics and yield. High digestibility, great palatability, and strong disease package for overall good producibility. First-in-class sugarcane aphid tolerance. Agronomics and maturity make it a strong hybrid for an extended harvest window for silage, hay production and grazing.

AS9301

MID-SEASON BMR-6 SUDANGRASS

Exceptional palatability and digestibility, dry stalk for quick dry-down and fast recovery after cutting with rapid regrowth; performs well in a wide range of challenging growing conditions.

AS9302

BRACHYTIC DWARF BMR-6 SUDANGRASS

The first BMR-6 brachytic dwarf hybrid sudangrass, with tremendous regrowth, dry stalk for quick dry-down, high palatability and digestibility and adaptability to various climates; risk mitigation due to superior standability.

EMPYR™ PREMIER FORAGES

FORAGE SELECTION GUIDE

EMPYR Premier Forages hybrids offer versatility to fit your needs and provide a quality feed option equal to or better than corn silage. With a variety of types, characteristics and harvest times, you can choose the seed that best suits your environment and planting.

BD = Brachytic Dwarf
DS = Dry Stalk
PS = Photoperiod Sensitive

aphix™ SCA Tolerance = High tolerance rating to sugarcane aphid

igrowth® = non-GMO herbicide-resistant technology that allows you to apply companion herbicide IMIFLEX™ for pre- or post-emergence control

NITROGEN FERTILIZATION RECOMMENDATION: 1 TO 1.25 LBS N PER GROWING DAY

HYBRID	TYPE	BMR-6	TRAITS	EARLY SEASON SILAGE	MID-SEASON SILAGE	FULL SEASON SILAGE	SINGLE CUT, GRAZE REGROWTH	DOUBLE CROP	MULTIPLE CUTS	SINGLE CUT, HIGH YIELD	MULTIPLE CUT, RAPID DRY-DOWN
ADV F8484IG	Forage Sorghum		BD & igrowth®		•						
ADV F8322	Forage Sorghum		aphix™ SCA Tolerance		•					•	
ADV F7103	Forage Sorghum	•	DS	•				•		•	
ADV F7232	Forage Sorghum	•	BD		•					•	
ADV F7424	Forage Sorghum	•	BD & aphix™ SCA Tolerance			•					
ADV S6404	Sorghum-Sudangrass	•	BD				•		•		•
ADV S6520	Sorghum-Sudangrass	•	PS & aphix™ SCA Tolerance			•	•		•	•	•
AS9301	Sudangrass	•	DS				•	•	•		•
AS9302	Sudangrass	•	BD & DS				•	•	•		•

EMPYR PREMIER FORAGES

ADV

F84841G

MEDIUM-LATE RELATIVE MATURITY
90 DAYS TO MID BLOOM
BRONZE GRAIN COLOR
SEMI-OPEN HEAD TYPE
13-15 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM-LATE SEASON SILAGE WITH GRAIN

igrowth

Ideal selection for producers looking for next-generation technology and superior yield potential. Conventional midrib with brachytic dwarf characteristic brings great standability and harvest performance for those looking to feed silage. **igrowth**® herbicide-resistant technology allows for a clean stand establishment for maximum early season growth and weed suppression.

- Strong-yielding hybrid with excellent season-long standability
- **igrowth**® herbicide resistance provides first-ever grass weed control
- Strong agronomics for those looking to push production with new technology

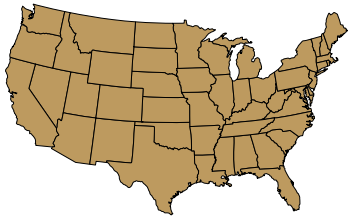
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	2
PALATABILITY	2
DIGESTIBILITY	2
SEEDLING VIGOR	1
RECOVERY AFTER CUTTING	3
PLANT UNIFORMITY	1
STANDABILITY	1
DOWNY MILDEW	3
ANTHRACNOSE	2

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	N/A	N/A	N/A



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

EARLY PLANTING COLD SOILS	NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	Hs	Ma	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability **Ht** = High Tolerance

*Tolerance confirmed in third-party testing conducted by the Agricultural Research Division of the USDA in Stillwater, OK.

EMPYR PREMIER FORAGES

ADV

F8322

MEDIUM	RELATIVE MATURITY
100 DAYS	TO SOFT DOUGH STAGE
STANDARD NON-BMR-6	MIDRIB
12–14	SEEDS/LB (1,000)

CHECK SEED BAG

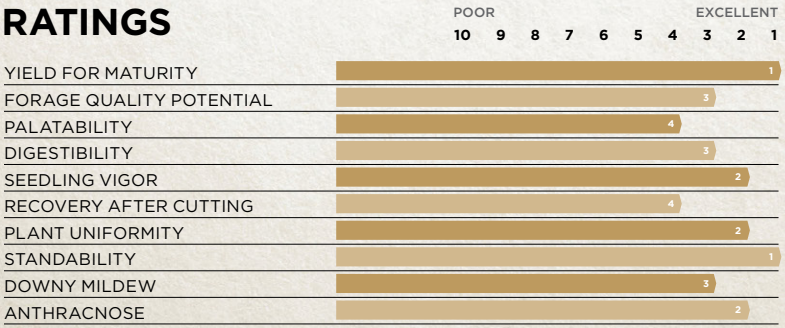
MEDIUM SEASON SILAGE WITH GRAIN

aphix SCA Tolerance

ADV F8322 was the first forage sorghum with Aphix-level sugarcane aphid tolerance. It provides excellent seedling vigor and plant uniformity. The hybrid also offers excellent standability and is an exceptional producer in a wide range of growing conditions, consistently outyielding competitors in the same class by up to 20%.

- HIgh sugarcane aphid tolerance
- Excellent yield, standability and silage choice
- 100 days to harvest

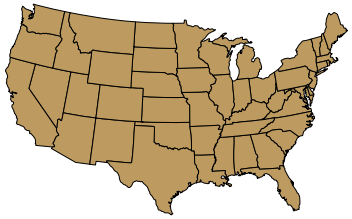
RATINGS



Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	5	N/A	N/A



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	Hs	Hs

HIGH PH SOILS IRON CHLOROSIS	NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	SUGARCANE APHID*
S	Hs	Ma	Hs	Ht

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability **Ht** = High Tolerance

*Tolerance confirmed in third-party testing conducted by the Agricultural Research Division of the USDA in Stillwater, OK.

EMPYR PREMIER FORAGES

ADV

F7103

85–90 DAYS HARVEST MATURITY
66 DAYS TO BOOT STAGE
BMR-6 MIDRIB
14-16 SEEDS/LB (1,000)
CHECK SEED BAG

EARLY-SEASON FORAGE SORGHUM

A faster maturity allows for placement in many different cropping systems, including double cropping, late planting and short growing seasons. **ADV F7103** will excel in northern climates when planted at appropriate times, providing a reliable silage crop without concerns about early freezes. As a conventional height, **ADV F7103** has good standability and harvestability. Overall grain yield on this hybrid provides excellent starch production and adds to the solid nutritional value.

- Earliest forage sorghum in the EMPYR lineup
- Dry stalk provides a desirable moisture level for ideal harvest conditions
- Great nutritional performance with BMR-6
- Maturity is ideal for double cropping or short season conditions

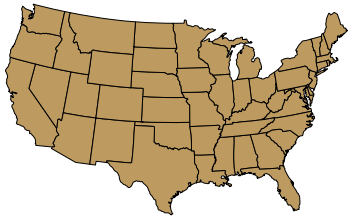
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	2
DIGESTIBILITY	1
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	3
PLANT UNIFORMITY	2
STANDABILITY	2
DOWNY MILDEW	3
ANTHRACNOSE	3
FUSARIUM WILT	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	3	N/A	N/A



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	S	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	S	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EMPYR PREMIER FORAGES

ADV

F7232

MEDIUM RELATIVE MATURITY
95–100 DAYS TO SOFT DOUGH STAGE
BMR-6 MIDRIB
14–18 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM BRACHYTIC DWARF

ADV F7232 is a medium season forage sorghum with excellent yield for maturity and superior forage quality potential. This BMR-6 forage sorghum provides exceptional nutritional value, while its brachytic dwarf trait adds a much tighter distance between internodes and allows for better standability. **ADV F7232** is adaptable and well-suited for full or limited irrigation or high-yield dryland.

- Brachytic dwarf genetics provide stout stalks for excellent standability
- Exceptional digestibility from BMR-6
- Great yield for maturity
- Excellent silage choice

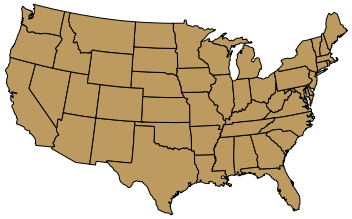
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	3
PLANT UNIFORMITY	3
STANDABILITY	1
DOWNY MILDEW	4
ANTHRACNOSE	2
FUSARIUM WILT	1

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	5	N/A	N/A



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Ma	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EMPYR PREMIER FORAGES

ADV

F7424

FULL	RELATIVE MATURITY
120 DAYS	TO SOFT DOUGH STAGE
BMR-6	MIDRIB
18-20	SEEDS/LB (1,000)
	CHECK SEED BAG

FULL-SEASON BMR-6 WITH SCA TOLERANCE

aphix SCA Tolerance

An improvement on the legendary AF7401. **ADV F7424** brings a jump in yield potential while maintaining everything we loved about its predecessor. Excellent standability, top-notch quality feed, and now featuring our Aphix™ SCA tolerance. This is the benchmark of all high-yielding forage sorghum products in the lineup. If you need a product to push the limits of yield and provide superb agronomics, this is the one to try.

- The top-yielding hybrid in high quality classification
- Combines BMR-6 and Aphix™ for game-changing management options
- Brachytic dwarf to maximize standability

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	1
RECOVERY AFTER CUTTING	3
PLANT UNIFORMITY	1
STANDABILITY	1
DOWNY MILDEW	3
ANTHRACNOSE	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	3	3	3

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	S	Hs	Hs

EARLY PLANTING COLD SOILS	NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	Hs	Ma	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability **Ht** = High Tolerance

EMPYR PREMIER FORAGES

ADV

S6404

MEDIUM-LATE RELATIVE MATURITY
70 DAYS TO BOOT STAGE
BMR-6 MIDRIB
14-16 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM-LATE SORGHUM-SUDANGRASS

ADV S6404 is a high-level sorghum-sudangrass with brachytic dwarf that provides versatility to a producer's forage operation. It has the ability to fill a bunk or a hay bale to meet feed requirements with fewer inputs. A high-quality plant with improved palatability, this elite multicut hybrid will make excellent dry hay.

- High-yielding multicut sorghum-sudangrass
- Strong nutritional value for feed quality
- Broad adaptability for more uniform acres
- Responds to increased resources
- Brachytic dwarf trait provides stout stalks for excellent standability

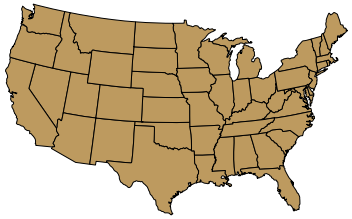
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	1
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	2
STANDABILITY	2
DOWNY MILDEW	3
ANTHRACNOSE	1
FUSARIUM WILT	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	1	3 BEGIN 24" STOP 6"	1 BEGIN 24" STOP 6"



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EMPYR PREMIER FORAGES

ADV

S6520

PHOTOPERIOD SENSITIVE REL. MATURITY
VARIED DAYS TO BOOT STAGE
BMR-6 MIDRIB
14-16 SEEDS/LB (1,000)
CHECK SEED BAG

PHOTOPERIOD SENSITIVE SORGHUM-SUDANGRASS

aphix SCA Tolerance

ADV S6520 is an all-around elite hybrid. Place this hybrid in high-production environments. The photoperiod sensitive maturity allows for excellent multicut management without the risk of having grain production. In systems that focus on single-cut management, this product is an excellent tonnage producer and can provide some flexibility in harvest timing. Areas with previous SCA pressure will benefit from elite tolerance levels.

- Industry-leading Aphix™ sugarcane aphid tolerance
- Photoperiod sensitive maturity for maximum harvest flexibility
- BMR-6 for top-end nutrition
- Quick regrowth for multiple cuttings

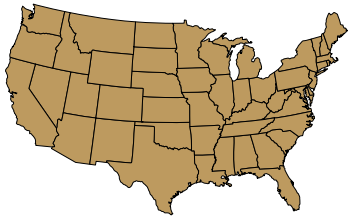
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	2
PLANT UNIFORMITY	1
STANDABILITY	2
DOWNY MILDEW	2
ANTHRACNOSE	2
FUSARIUM WILT	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	3	1
		BEGIN 24" STOP 6"	BEGIN 24" STOP 6"



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	S	Hs

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EMPYR PREMIER FORAGES

AS9301

MEDIUM RELATIVE MATURITY
60 DAYS TO BOOT STAGE
BMR-6 MIDRIB
21–24 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM MATURITY SUDANGRASS

AS9301 is a BMR-6 hybrid sudangrass. The BMR-6 characteristic adds high quality to a plant that has fine stems and quick regrowth. This hybrid will dry down fast so it can be used in areas where putting up dry sudangrass hay is difficult.

- Dry stalk for quick dry-down
- Excellent regrowth after harvest
- Exceptional drought tolerance
- BMR-6 for high digestibility

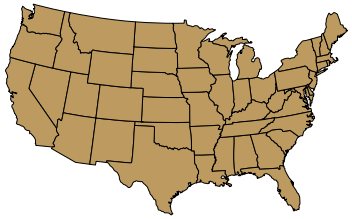
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	1
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	2
STANDABILITY	3
DOWNY MILDEW	3
ANTHRACNOSE	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	2 BEGIN 24" STOP 6"	1 BEGIN 24" STOP 6"



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	S	X

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EMPYR™ PREMIER FORAGES

AS9302

MEDIUM
55–65 DAYS
BMR-6
22–25

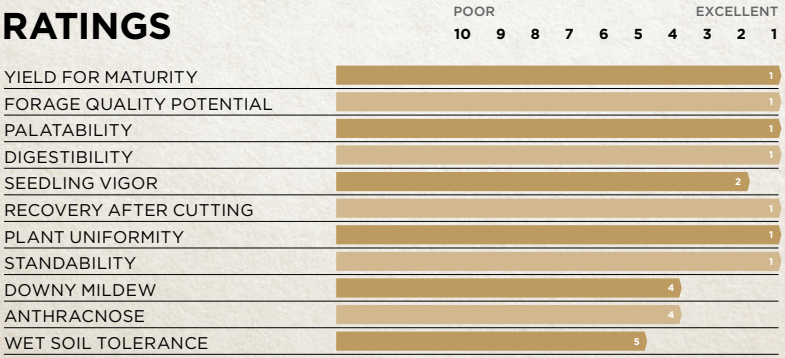
RELATIVE MATURITY
TO BOOT STAGE
MIDRIB
SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM MATURITY SUDANGRASS

AS9302 is the first BMR-6, brachytic dwarf hybrid sudangrass to hit the market. The BMR-6 gene adds high digestibility to a plant that has very fine stems and tremendous regrowth. The brachytic dwarf trait adds a much tighter distance between internodes, allowing for a lower cutting/grazing height and better standability. The dry stalk trait allows for quick dry-down, making this one of the most versatile forage products on the market.

- Brachytic dwarf trait provides stout stalks for excellent standability
- Excellent for dry hay and rotational grazing
- Dry stalk for quick dry-down
- Exceptional regrowth and BMR-6 for high digestibility

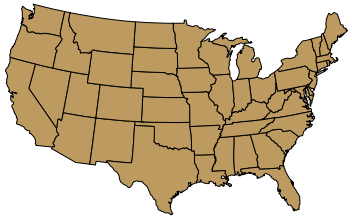
RATINGS



Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	3	1
		BEGIN **24"** STOP **6"**	BEGIN **24"** STOP **6"**



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	S	X

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

FORAGE SELECTION GUIDE

Alta Seeds hybrids offer versatility to fit your needs and provide a quality feed option equal to or better than corn silage. With a variety of types, characteristics and harvest times, you can choose the seed that best suits your environment and planting processes. Our forage selection includes forage sorghum, sorghum-sudangrass and pearl millet — all offering superior quality and tonnage so you can lower input costs and exceed production goals.

BD = Brachytic Dwarf
DS = Dry Stalk
PS = Photoperiod Sensitive

Nitrogen Fertilization Recommendation:
1 to 1.25 Lbs N per Growing Day

HYBRID	TYPE	BMR-6	TRAITS	EARLY SEASON SILAGE	MID-SEASON SILAGE	FULL SEASON SILAGE	SINGLE CUT, GRAZE REGROWTH	DOUBLE CROP	MULTIPLE CUTS	SINGLE CUT, HIGH YIELD	MULTIPLE CUT, RAPID DRY-DOWN
AF8301	Forage Sorghum				●					●	
AF7201	Forage Sorghum	●	DS		●			●		●	
AF7102	Forage Sorghum	●		●				●		●	
AF7401	Forage Sorghum	●	BD			●				●	
GRAZE IT	Sorghum-Sudangrass	●					●	●	●	●	
GREEN GRAZE	Sorghum-Sudangrass	●					●	●	●	●	
ADV S6218	Sorghum-Sudangrass	●	DS		●		●	●	●	●	●
AS6401	Sorghum-Sudangrass	●					●	●	●	●	
AS6402	Sorghum-Sudangrass	●	BD				●	●	●	●	
AS6501	Sorghum-Sudangrass	●				●	●		●	●	
AS6504	Sorghum-Sudangrass	●	PS			●	●		●	●	
Wonderleaf	Pearl Millet										

AF8301

MEDIUM RELATIVE MATURITY
100 DAYS TO SOFT DOUGH STAGE
STANDARD NON-BMR-6 MIDRIB
14–16 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM NON-BMR SILAGE WITH GRAIN

AF8301 is a non-BMR hybrid with outstanding yield potential. This hybrid has a short plant structure for good standability and ranges from 72″ to 84″ in plant height. This hybrid is drought tolerant and great for dryland conditions. **AF8301** features good nutritional quality for a standard midrib hybrid and will produce a white grain head with high grain yields.

- Harvest 100 days after emergence
- Tremendous drought tolerance and yield potential
- Good nutritional quality for standard midrib hybrid
- Excellent plant uniformity

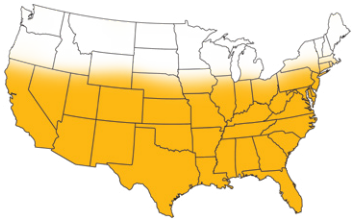
RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	3
PALATABILITY	4
DIGESTIBILITY	3
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	5
PLANT UNIFORMITY	1
STANDABILITY	2
DOWNY MILDEW	4
ANTHRACNOSE	4

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	7	DO NOT GRAZE	DO NOT GRAZE



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	Hs	Hs

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

AF7201

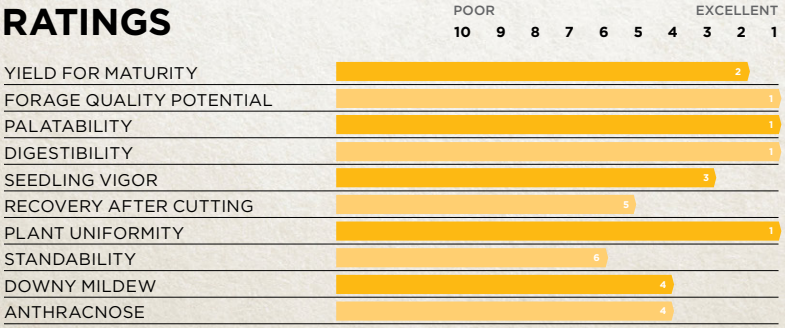
MEDIUM-EARLY RELATIVE MATURITY
90–95 DAYS TO SOFT DOUGH STAGE
BMR-6 MIDRIB
13–15 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM-EARLY SILAGE WITH GRAIN

AF7201 is a short-statured, 90- to 95-day BMR-6 forage sorghum. Under most conditions, **AF7201** will yield with full-season hybrids and has good standability. This hybrid performs well under dryland conditions with excellent heat and stress tolerance. Due to its early maturity, **AF7201** provides forage production options in areas where most full-season products are unable to mature.

- Harvest 90–95 days after emergence
- BMR-6 provides excellent nutrition
- Great on dryland or limited irrigation
- Dry stalk for quick dry-down
- Excellent double crop choice

RATINGS



Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	5	N/A	N/A

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	Hs	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Ma	S	Ma	Ma

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

AF7102

EARLY RELATIVE MATURITY
85–89 DAYS TO SOFT DOUGH
BMR-6 MIDRIB
17–19 SEEDS/LB (1,000)
CHECK SEED BAG

EARLY MATURITY FORAGE SORGHUM

AF7102 is an early BMR-6 forage sorghum with great standability. Northern producers are able to reach high yield potential with tremendous forage quality of a BMR-6 without the issues of lodging. This hybrid works best in areas north of I-70 where humidity and the shorter growing season tend to be a challenge. **AF7102** can be used in southern states for late planting or early harvest situations. The tillering capabilities of this hybrid are unsurpassed, allowing for increased yields and ground cover.

- Harvest 85–89 days after emergence
- Short stature genetics provide stout stalks for excellent standability
- Excellent for silage
- Double crop silage option

RATINGS

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	7	N/A	N/A

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	Ma	S	N/A

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

AF7401

LATE RELATIVE MATURITY
100–115 DAYS TO SOFT DOUGH STAGE
BMR-6 MIDRIB
15–20 SEEDS/LB (1,000)
CHECK SEED BAG

ALL-STAR FULL SEASON SILAGE WITH GRAIN

AF7401 represents the newest generation of hybrid forage sorghums. This product features a genetic combination of BMR-6 and brachytic dwarf that enhances both productivity and efficiency. **AF7401** has a reduced internode length that creates a compact, leafy and prolific plant. However, it yields with taller sorghums due to the standability and tillering attributes of the brachytic dwarf characteristic. Producers get the best of both worlds: excellent forage qualities and a dependable high-yielding feedstock.

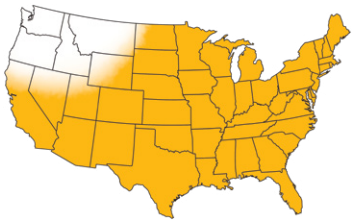
- High-yielding performance
- BMR-6 for superior forage quality
- Brachytic dwarf genetics provide stout stalks for excellent standability
- Economical performance and efficiency

RATINGS

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	5	N/A	N/A



RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Ma	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	Hs	Hs

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

GRAZE IT

MEDIUM RELATIVE MATURITY
65 DAYS TO BOOT STAGE
STANDARD NON-BMR-6 MIDRIB
15–17 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM MATURITY SORGHUM-SUDANGRASS

GRAZE IT is a versatile hybrid capable of producing a high tonnage of dry matter for grazing, hay, silage, green manure or organic matter. **GRAZE IT** has exceptional heat and drought stress tolerance and fast regrowth.

- Ideal for dryland or limited irrigation production
- Thin-stemmed plant type
- Versatile crop usage for hay, silage and grazing

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	4
PALATABILITY	4
DIGESTIBILITY	4
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	3
STANDABILITY	1
DOWNY MILDEW	4
ANTHRACNOSE	4
FUSARIUM WILT	4

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
3	1	4	1
		BEGIN **24"** STOP **6"**	BEGIN **24"** STOP **6"**

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	S	S	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	Ma	Ma

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

MEDIUM
N 65 / S 100 DAYS
BMR-12
14-16

RELATIVE MATURITY
TO BOOT STAGE
MIDRIB
SEEDS/LB (1,000)
CHECK SEED BAG

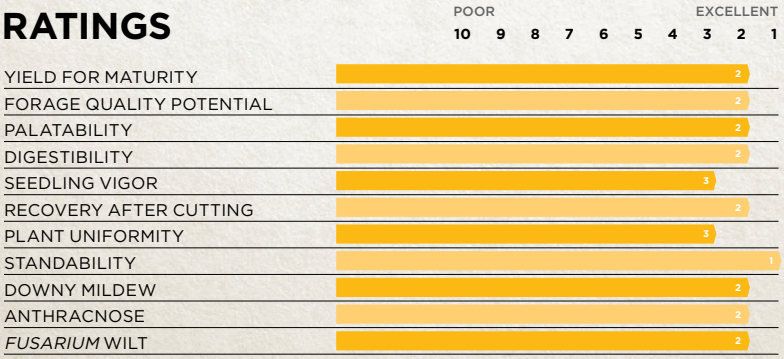
GREEN GRAZE

MEDIUM MATURITY SORGHUM-SUDANGRASS

Green Graze is a sorghum-sudangrass hybrid with excellent yield potential and good medium-season seedling vigor. This hybrid can be grown throughout the United States and will be ready for harvest at 40 days or 40 inches, whichever comes first. It has good drought tolerance and heat stress resistance to weather's hot, dry conditions. **Green Graze** has a very uniform stand. This hybrid features BMR-12 genetics for excellent digestibility and palatability, in addition to a solid disease resistance profile. **Green Graze** is an excellent economic choice for producers wanting a good quality feed.

- Excellent yield potential
- Good early seedling vigor
- BMR-12 for excellent digestability
- Good drought tolerance and heat stress resistance

RATINGS



Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE (DIRECT CHOP / HAYLAGE / BALEAGE)	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	1	3
		BEGIN 24" STOP 6"	BEGIN 24" STOP 6"

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	S	S	S

EARLY PLANTING / COLD SOILS	NO-TILL	POORLY DRAINED SOILS	SUGARCANE APHID*
S	S	Ma	X

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability **Ht** = High Tolerance

Alta seeds ADV

S6218

MEDIUM-EARLY RELATIVE MATURITY
65 DAYS TO BOOT STAGE
BMR-6 MIDRIB
15-17 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM-EARLY MATURITY SORGHUM-SUDANGRASS

ADV S6218 brings a new approach to the sorghum-sudangrass lineup, with dry stalk for less moisture, a shorter maturity to help shorten the season and the yield potential to fit every geography. Southern environments will benefit from the advantages of dry stalk and the versatility of a grazing option as well as dry hay production. Northern and short season scenarios will find an advantage as a haylage and baleage option for high-quality, high-moisture feed.

- Dry stalk for less moisture and spoilage
- Game-changing blend of maturity and yield advantages
- Excellent multicut regrowth potential
- Season-long high tonnage production

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	1
STANDABILITY	1
DOWNY MILDEW	2
ANTHRACNOSE	2

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	1	2

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	S

EARLY PLANTING / COLD SOILS	NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	Ma	Hs	Ma

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability **Ht** = High Tolerance

AS6401

MEDIUM-LATE RELATIVE MATURITY
N 65 / S 100 DAYS TO BOOT STAGE
BMR-6 MIDRIB
14–16 SEEDS/LB (1,000)
CHECK SEED BAG

MEDIUM-LATE MATURITY SORGHUM-SUDANGRASS

AS6401 has a long season in the South (100 days to bloom). This extends the harvest window and allows **AS6401** to be used where photoperiod sensitive hybrids are not effective. In northern regions, **AS6401** will bloom at approximately 65 days. Due to its tropical genetics, **AS6401** has better regrowth in wet or humid conditions.

- Versatile hybrid for hay, silage or grazing
- Highly disease resistant
- Superior forage quality with high palatability and forage fiber digestibility

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	3
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	3
STANDABILITY	3
DOWNY MILDEW	2
ANTHRACNOSE	2
FUSARIUM WILT	2

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	1	4	1
		BEGIN 24" STOP 6"	BEGIN 24" STOP 6"

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Ma	S	S	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	Hs	Hs

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

AS6402

LATE — RELATIVE MATURITY
70 DAYS — TO BOOT STAGE
BMR-6 — MIDRIB
14–16 — SEEDS/LB (1,000)
CHECK SEED BAG

LATE MATURITY SORGHUM-SUDANGRASS

AS6402 brought the brachytic dwarf characteristic to prominence in the market. **AS6402** has reduced internode length, which creates a very compact, leafy and prolific plant. However, it yields with taller sorghum-sudangrass hybrids due to the standability and tillering attributes of the brachytic dwarf trait. Producers will have the best of both worlds: excellent forage qualities from BMR-6 and a dependable high-yielding feedstock.

- Brachytic dwarf characteristic provides high leaf-to-stem ratio
- Superior standability and excellent regrowth
- Superb tonnage under multiple harvest systems
- BMR-6 provides high-quality nutrition

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	1
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	3
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	3
STANDABILITY	1
DOWNY MILDEW	3
ANTHRACNOSE	3
FUSARIUM WILT	3

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE (DIRECT CHOP / HAYLAGE / BALEAGE)	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
1	1	4	1
		BEGIN 18" STOP 4"	BEGIN 18" STOP 4"

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	S	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

AS6501

LATE RELATIVE MATURITY
VARIED DAYS TO BOOT STAGE
BMR-6 MIDRIB
13–15 SEEDS/LB (1,000)
CHECK SEED BAG

LATE MATURITY SORGHUM-SUDANGRASS

AS6501 is an excellent choice for tough and high-yield dryland conditions. This hybrid has outstanding recovery after cutting and is a great option for rotational grazing. The BMR-6 characteristic of **AS6501** increases feedstock utilization and efficiency.

- Excellent regrowth after harvest
- Exceptional drought tolerance
- BMR-6 provides high-quality nutrition

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	2
FORAGE QUALITY POTENTIAL	1
PALATABILITY	1
DIGESTIBILITY	1
SEEDLING VIGOR	4
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	3
STANDABILITY	3
DOWNY MILDEW	3
ANTHRACNOSE	6
FUSARIUM WILT	6

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
4	1	2	1
		BEGIN 24" STOP 6"	BEGIN 24" STOP 6"

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	S	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

Alta seeds

ADV

S6504

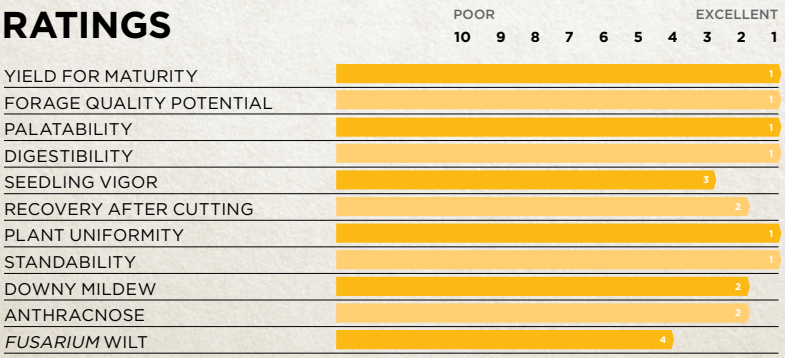
PHOTOPERIOD SENSITIVE REL. MATURITY
VARIED DAYS TO BOOT STAGE
BMR-6 MIDRIB
13–15 SEEDS/LB (1,000)
CHECK SEED BAG

PHOTOPERIOD SENSITIVE SORGHUM-SUDANGRASS

ADV S6504 has excellent yield for maturity and standability. The BMR-6 characteristic offers exceptional nutrition for high-quality forage that is also highly digestible. The photoperiod sensitive characteristic provides an extended window of harvest and consistent quality in the growing season. Plus, outstanding regrowth makes this hybrid a top selection for rotational grazing.

- Exceptional regrowth after harvest
- Superb yield potential
- Extended harvest window
- BMR-6 provides high-quality nutrition
- High sugar content

RATINGS



Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE DIRECT CHOP / HAYLAGE / BALEAGE	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
3	1	3	1
		BEGIN 24" STOP 6"	BEGIN 24" STOP 6"

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
S	Hs	Hs	Hs

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
Hs	S	Hs	S

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

EARLY
62 DAYS
DRY
80–110

RELATIVE MATURITY
TO BOOT STAGE
MIDRIB
SEEDS/LB (1,000)
CHECK SEED BAG

WONDERLEAF

HYBRID PEARL MILLET

Wonderleaf is a bush-type hybrid pearl millet with high yield potential. It grows quickly, reaching the boot stage in 62 days. **Wonderleaf** has a high level of tolerance to many pathogens and high humidity, but cannot tolerate standing surface water. **Wonderleaf** can be grown on as little as 16" of water; however, greater tonnage will be produced with greater water availability.

- Bush-type hybrid with high yield potential
- Tall, upright and heavy tillering
- Excellent for warm-season pasture or hay
- Widely adapted to many diverse geographic regions
- No prussic acid concerns

RATINGS

	POOR 10 9 8 7 6 5 4 3 2 1 EXCELLENT
YIELD FOR MATURITY	2
FORAGE QUALITY POTENTIAL	4
PALATABILITY	4
DIGESTIBILITY	4
SEEDLING VIGOR	2
RECOVERY AFTER CUTTING	1
PLANT UNIFORMITY	3
STANDABILITY	5

Based on Alta Seeds research trials relative to other Alta Seeds products.

CROP USE

SILAGE (DIRECT CHOP / HAYLAGE / BALEAGE)	DRY HAY	CONTINUOUS GRAZING	ROTATIONAL GRAZING
2	1	N/A	1

RECOMMENDED SEEDING RATES

Seeding rates may vary depending on local growing conditions. **Please see your Alta Seeds retailer for local recommendations.**

PRIMARY AREA OF ADAPTATION

FIELD POSITIONING

TOUGH DRYLAND	HIGH-YIELD DRYLAND	LIMITED IRRIGATION	FULL IRRIGATION
Hs	Hs	S	S

NO-TILL	POORLY DRAINED SOILS	ANTHRACNOSE PRONE AREA	*FUSARIUM* PRONE AREA
S	S	N/A	N/A

Hs = Highly Suitable **S** = Suitable **Ma** = Manage Appropriately **X** = Poor Suitability

Vertix™ Seed Treatment

GIVE SORGHUM AN EXCEPTIONAL START WITH VERTIX SEED TREATMENTS

Sorghum hybrids from Alta Seeds are designed for resilience. To fully secure your seed investment, it's vital to guard against disease and pests during germination and stand establishment. Vertix™ Seed Treatments give you the protection you need to combat threats to stand establishment so your sorghum gets off to an exceptional start and reaches its genetic potential.

With industry-leading protection against seed- and soil-borne diseases and early season insects, Vertix Seed Treatments create a protective barrier against pathogens and pests that begins in the bag and extends to the field. The innovative solution lineup also includes herbicide safening to increase selectivity to Group 15 herbicides like Moccasin™ II PLUS S-metolachlor. Vertix Seed Treatments allow you to maximize your seed investment and have confidence knowing that your seed is safeguarded from the very beginning.

Vertix Seed Treatments are available in three different options to meet your unique environmental conditions and growing practices >

Vertix™ CORE Seed Treatment

Vertix™ SELECT Seed Treatment

Vertix™ PREMIER Seed Treatment

Vertix™ Seed Treatment

ALL VERTIX SEED TREATMENTS PROVIDE:

- » Protection from bag to field
- » Proven, reliable active ingredients
- » Uniform coverage and low dust levels
- » Increased stand, uniformity and plant vigor

Vertix™ CORE Seed Treatment

VERTIX CORE uses a unique combination of ipconazole and metalaxyl fungicides to control a variety of diseases including seed rots like *Aspergillus* spp. and seedling blights such as *Fusarium* spp. and *Rhizoctonia solani*.

ACTIVE INGREDIENTS: **IPCONAZOLE + METALAXYL** *(fungicides)*

DISEASE PROTECTION: *Fusarium* spp., *Rhizoctonia solani*, *Pythium* spp., early season Phytophthora, *Aspergillus* spp., and *Penicillium* spp.

Vertix™ SELECT Seed Treatment

VERTIX SELECT builds off of Vertix CORE by adding flurazole as a safener to allow pre-emergent Group 15 herbicides to be safely applied without damaging the seed.

ACTIVE INGREDIENTS: **IPCONAZOLE + METALAXYL** *(fungicides)*
FLURAZOLE *(herbicide safener)*

DISEASE PROTECTION: *Fusarium* spp., *Rhizoctonia solani*, *Pythium* spp., early season Phytophthora, *Aspergillus* spp., and *Penicillium* spp.

CROP PROTECTION: Crop safening from Group 15 herbicides such as Moccasin™ II PLUS S-metolachlor, acetochlor, and dimethenamid

Vertix™ PREMIER Seed Treatment

VERTIX PREMIER contains all the ingredients found in Vertix SELECT, along with imidacloprid insecticide to combat early season aphids, chinch bugs, imported fire ants and wireworms.

ACTIVE INGREDIENTS: **IPCONAZOLE + METALAXYL** *(fungicides)*
FLURAZOLE *(herbicide safener)*
IMIDACLOPRID *(insecticide)*

DISEASE PROTECTION: *Fusarium* spp., *Rhizoctonia solani*, *Pythium* spp., early season Phytophthora, *Aspergillus* spp., and *Penicillium* spp.

CROP PROTECTION: Crop safening from Group 15 herbicides such as Moccasin™ II PLUS S-metolachlor, acetochlor, and dimethenamid

INSECT PROTECTION: Early season aphids, chinch bugs, imported fire ants, and wireworms

Safeguarding your crop starts before the planting even begins. Vertix Seed Treatments offer a protective boost with powerful formulas designed to enhance performance and increase yields.

As a grower, your needs are ever-evolving. And our team is constantly innovating and improving our hybrid lineup to meet those needs.

With options to maximize your season even in the toughest conditions, Alta Seeds hybrids are developed with one mission in mind:

TO HELP YOU GROW YOUR SUCCESS.

Alta seeds

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