



2023 **FORAGE SORGHUM** GUIDE

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A CUTTING-EDGE, CLIMATE-SMART SUPER CROP

Sorghum is a versatile crop that can be grown as a grain, forage or sweet crop. It was originally domesticated in Africa and has since spread throughout the globe to be one of the top five cereals in the world.

- » **The “new super grain”** Sorghum is an incredible nutrient source and is a non-GMO gluten-free cereal.
- » **Nutrition for animals** Sorghum is used in the beef, swine, dairy and poultry industries, as well as an ingredient in pet food. Due to its high nutritional value, starch and good tolerance to mycotoxins, sorghum offers a safeguard for animal nutrition.
- » **Bioenergy** Sorghum, rich in fiber, is used in the production of biofuel, biogas and ethanol.
- » **Biomaterials** Sorghum is an excellent fibrous raw material to produce industrial pulp that is used for biomass-based materials like bio-plastic and paper.

Sorghum is one the most efficient crops in conversion of solar energy and use of water, and is known as a high-energy, drought-tolerant, resource-conserving grain.



Efficient water use Thanks to its CO_2 absorption mechanism and complex root system, sorghum extracts and uses water and nutrients from the soil more efficiently than other crops. It can adapt to heat and drought, requiring 30% less water than other grains.



Limited fertilization Sorghum can use fertilizers from the soil efficiently, requiring no additional fertilization. In addition, it is rarely exposed to diseases and pests so requires little phytosanitary treatment.



Improved soil health Sorghum increases organic matter, recycles nutrients, captures and retains moisture and reduces soil erosion.



Reduced carbon footprint Sorghum no-tillage practices and nitrogen-use efficiency helps to reduce the carbon footprint. Sorghum's high sequestration ability helps remove harmful carbon from the atmosphere.



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 herbicide tolerance, seed treatments 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 trusted 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 forage sorghum hybrid contains the high-performing genetics of EMPYR along with non-GMO **igrowth®** technology that allows you to apply IMIFLEX™ herbicide pre- or 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

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 IN 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, earlier baling and storage

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

ADV F8484IG
MEDIUM SEASON BRACHYTIC
DWARF SILAGE WITH GRAIN



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-tolerant technology allows for a clean stand establishment for maximum early season growth and weed suppression.

ADV F8322
MID-SEASON APHIX
FORAGE SORGHUM



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
FULL-SEASON BMR-6
WITH 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



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 harvesting window for silage, hay production and grazing.

AS9301
MID-SEASON BMR-6 DRY STALK 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 DRY STALK 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.



FORAGE SELECTION GUIDE



HYBRID	TYPE	BMR-6	TRAITS	EARLY SEASON SILAGE	MID- SEASON SILAGE
ADV F8484IG	Forage Sorghum		BD & 		●
ADV F8322	Forage Sorghum		 <small>SCA Tolerance</small>		●
ADV F7103	Forage Sorghum	●	DS	●	
ADV F7232	Forage Sorghum	●	BD		●
ADV F7424	Forage Sorghum	●	BD &  <small>SCA Tolerance</small>		
ADV S6404	Sorghum-Sudangrass	●	BD		
ADV S6520	Sorghum-Sudangrass	●	PS &  <small>SCA Tolerance</small>		
AS9301	Sudangrass	●	DS		
AS9302	Sudangrass	●	BD & DS		

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



= Highest tolerance
 rating to
 sugarcane aphid



= Non-GMO herbicide-tolerant
 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

FULL SEASON SILAGE	SINGLE CUT, GRAZE REGROWTH	DOUBLE CROP	MULTIPLE CUTS	SINGLE CUT, HIGH YIELD	MULTIPLE CUT, RAPID DRY-DOWN
				•	
				•	
		•		•	
				•	
•				•	
	•		•		•
•	•		•	•	•
	•	•	•		•
	•	•	•		•



ADV

MEDIUM-LATE RELATIVE MATURITY
110 DAYS TO SOFT DOUGH STAGE
NON-BMR CONVENTIONAL MID RIB
BRACHYTIC DWARF
13-15 SEEDS/LB (1,000)
CHECK SEED BAG

F84841G

MEDIUM-LATE SEASON SILAGE WITH GRAIN



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-tolerant 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 tolerance provides first-ever grass weed control
- » Strong agronomics for those looking to push production with new technology

RATINGS



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

DIRECT CHOP

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**

S

**HIGH-YIELD
DRYLAND**

Hs

**LIMITED
IRRIGATION**

Hs

**FULL
IRRIGATION**

Hs

**EARLY PLANTING
COLD SOILS**

S

NO-TILL

Hs

**POORLY
DRAINED SOILS**

Ma

**ANTHRACNOSE
PRONE AREA**

Hs

**FUSARIUM
PRONE AREA**

S

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



IMIFLEX™
HERBICIDE

Always read and follow label directions. Product packaging may be different than pictured here. Visit upl-ltd.com/ca for product and label detail.

10 L
NET CONTENT



MORE SORGHUM, FEWER WEEDS

Sorghum growers now have an easy way to get the most value from their sorghum acres. IMIFLEX™ herbicide is the only IMI herbicide certified for use in the innovative, non-GMO **igrowth® sorghum production system**. Broad-spectrum and residual IMIFLEX herbicide controls even the toughest grass and broadleaf weeds in **igrowth** sorghum, helping realize the full potential of your sorghum acres. IMIFLEX herbicide is also flexible, as it can be used pre- or post-emergence in conservation and in conventional tillage production systems.

IMIFLEX Herbicide Product Benefits

- » Broad-spectrum systemic herbicide for use in sorghum containing the Alta Seeds® **igrowth®** tolerance technology.
- » Excellent crop safety with **igrowth** sorghum.
- » Consistent performance across geographical regions.
- » Flexible application timing can be used pre- or post-emergence.
- » Long-lasting control of hard-to-kill grassy weeds including Texas panicum, crabgrass and foxtail.
- » Compatibility with traditional sorghum herbicide programs.
- » 0-day pre-harvest interval and no grazing or feed restrictions.

**ADV**

F8322

MEDIUM**105 DAYS****STANDARD NON-BMR-6****12-14**

RELATIVE MATURITY

TO SOFT DOUGH STAGE

MIDRIB

SEEDS/LB (1,000)

CHECK SEED BAG

MEDIUM SEASON SILAGE WITH GRAIN



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
- » 105 days to harvest

RATINGS



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

DIRECT CHOP

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**

Hs

**HIGH-YIELD
DRYLAND**

Hs

**LIMITED
IRRIGATION**

Hs

**FULL
IRRIGATION**

Hs

**HIGH PH SOILS
IRON CHLOROSIS**

S

NO-TILL

Hs

**POORLY
DRAINED SOILS**

Ma

**ANTHRACNOSE
PRONE AREA**

Hs

**SUGARCANE
APHID***

Ht

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

**ADV**

F7103

EARLY
85-90 DAYS
BMR-6
14-16

RELATIVE MATURITY
TO SOFT DOUGH STAGE
MIDRIB
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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

DIRECT CHOP

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
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

**ADV**

F7232

MEDIUM**105-110 DAYS****BMR-6****14-18**

RELATIVE MATURITY

TO SOFT DOUGH STAGE

MIDRIB

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

DIRECT CHOP

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
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

**ADV**

F7424

FULL
120 DAYS
BMR-6
18-20

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

FULL-SEASON BMR-6 WITH 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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

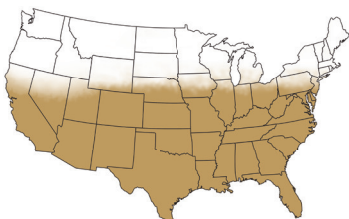
1

DIRECT CHOP

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**

S

**HIGH-YIELD
DRYLAND**

S

**LIMITED
IRRIGATION**

Hs

**FULL
IRRIGATION**

Hs

**EARLY PLANTING
COLD SOILS**

Hs

NO-TILL

Hs

**POORLY
DRAINED SOILS**

Ma

**ANTHRACNOSE
PRONE AREA**

Hs

**FUSARIUM
PRONE AREA**

S

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

**ADV**

S6404

MEDIUM-LATE
70 DAYS
BMR-6
14-16

RELATIVE MATURITY
TO BOOT STAGE
MIDRIB
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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

HAYLAGE/BALEAGE

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

**ADV**

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

S6520

PHOTOPERIOD SENSITIVE SORGHUM-SUDANGRASS



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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

HAYLAGE/BALEAGE

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	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



MEDIUM
60 DAYS
BMR-6
21-24

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

AS9301

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										EXCELLENT									
	10	9	8	7	6	5	4	3	2	1	10	9	8	7	6	5	4	3	2	1
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

CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

2

HAYLAGE/BALEAGE

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



MEDIUM
55-65 DAYS
BMR-6
22-25

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

AS9302

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

	POOR								EXCELLENT
	10	9	8	7	6	5	4	3	2 1
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									4
ANTHRACNOSE									4
WET SOIL TOLERANCE									5

CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

2

HAYLAGE/BALEAGE

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	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



HYBRID	TYPE	BMR-6	TRAITS	EARLY SEASON SILAGE	MID- SEASON SILAGE
AF7102	Forage Sorghum	●		●	
AF7401	Forage Sorghum	●	BD		
Graze It	Sorghum-Sudangrass				
Green Graze	Sorghum-Sudangrass		MS, BMR-12		
ADV S5501	Sorghum-Sudangrass		PS		
ADV S6218	Sorghum-Sudangrass	●	DS		●
AS6401	Sorghum-Sudangrass	●			
AS6402	Sorghum-Sudangrass	●	BD		
AS6501	Sorghum-Sudangrass	●			
Wonderleaf	Pearl Millet				

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
 DS = Male Sterile

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

FULL SEASON SILAGE	SINGLE CUT, GRAZE REGROWTH	DOUBLE CROP	MULTIPLE CUTS	SINGLE CUT, HIGH YIELD	MULTIPLE CUT, RAPID DRY-DOWN
		•		•	
•				•	
	•	•	•	•	
	•	•	•	•	
			•		
	•	•	•	•	•
	•	•	•	•	
	•	•	•	•	
			•		
	•	•	•		•

EARLY
85-89 DAYS
BMR-6
17-19

RELATIVE MATURITY
TO SOFT DOUGH
MIDRIB
SEEDS/LB (1,000)
CHECK SEED BAG

AF7102

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

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

CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

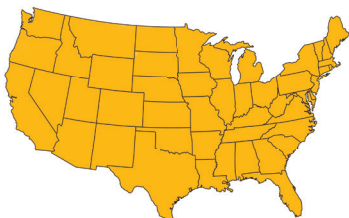
1

DIRECT CHOP

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
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

LATE
115 DAYS
BMR-6
15-20

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

AF7401

ALL-STAR FULL SEASON SILAGE WITH GRAIN

AF7401 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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

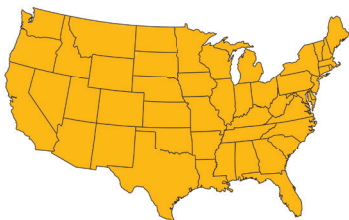
1

DIRECT CHOP

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
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

MEDIUM
65 DAYS

STANDARD NON-BMR-6
15-17

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

CHECK SEED BAG

GRAZE IT

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

3

HAYLAGE/BALEAGE

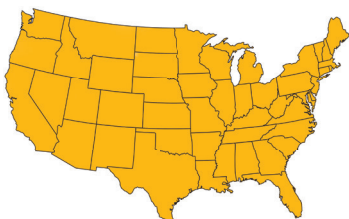
1

4

**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
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", whichever comes first. It has good drought tolerance and heat stress resistance to summer'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 digestibility
- » Good drought tolerance and heat stress resistance

RATINGS



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

2

HAYLAGE/BALEAGE

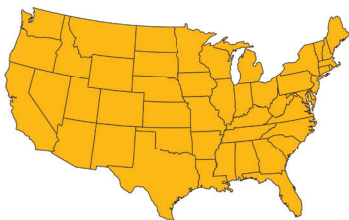
1

1

**BEGIN 24"
STOP 6"**

3

**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

**PHOTOPERIOD
SENSITIVE
VARIABLE
BMR-6
15-17**

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

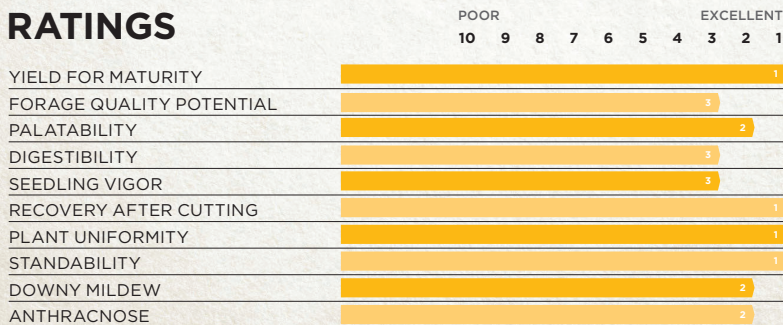
S5501

MEDIUM-EARLY MATURITY SORGHUM-SUDANGRASS

ADV S5501 is our highest yielding photoperiod sensitive sorghum-sudangrass. This increases the harvest window allowing quality to remain unchanged for a longer period of time. It also adds to its drought tolerance and total yield potential.

- » Significant increase in drought tolerance
- » Significant increase in yield
- » Photoperiod sensitive
- » Wide harvest window

RATINGS



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

CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE

1

HAYLAGE/BALEAGE



DRY HAY

1



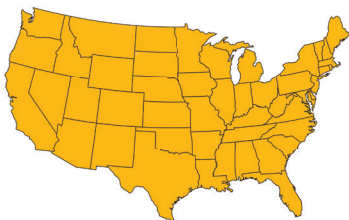
**CONTINUOUS
GRAZING**

2



**ROTATIONAL
GRAZING**

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
S	Hs	Hs	S

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

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

MEDIUM-EARLY

65 DAYS

BMR-6

15-17

RELATIVE MATURITY

TO BOOT STAGE

MIDRIB

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

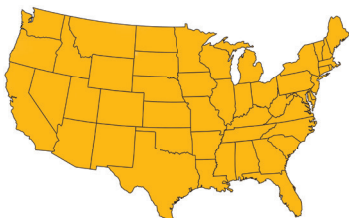
2

HAYLAGE/BALEAGE

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**

S

**HIGH-YIELD
DRYLAND**

Hs

**LIMITED
IRRIGATION**

Hs

**FULL
IRRIGATION**

S

**EARLY PLANTING
/ COLD SOILS**

Hs

NO-TILL

S

**POORLY
DRAINED SOILS**

Ma

**ANTHRACNOSE
PRONE AREA**

Hs

**FUSARIUM
PRONE AREA**

Ma

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



MEDIUM-LATE
N 65 / S 100 DAYS
BMR-6
14-16

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

AS6401

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

HAYLAGE/BALEAGE

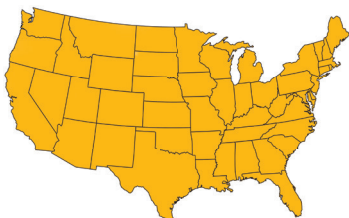
1

4

**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
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

LATE
70 DAYS
BMR-6
14-16

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

AS6402

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE



DRY HAY



**CONTINUOUS
GRAZING**



**ROTATIONAL
GRAZING**

1

HAYLAGE/BALEAGE

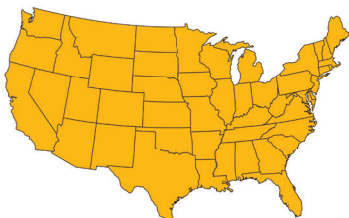
1

4

BEGIN 18"
STOP 4"

1

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

LATE
VARIED DAYS
BMR-6
13-15

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

AS6501

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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE

2

HAYLAGE/BALEAGE



DRY HAY

1



**CONTINUOUS
GRAZING**

2

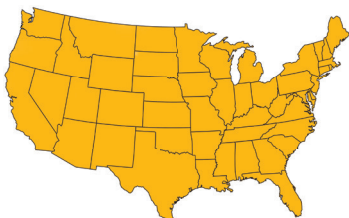
BEGIN 24"
STOP 6"



**ROTATIONAL
GRAZING**

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
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



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



CROP USE



SILAGE
DIRECT CHOP / HAYLAGE / BALEAGE

2



DRY HAY

1



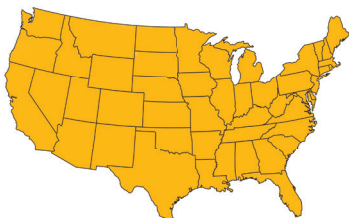
**CONTINUOUS
GRAZING**

N/A



**ROTATIONAL
GRAZING**

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



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



**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™ SELECT
Seed Treatment

Vertix™ PREMIER
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 builds on Vertex 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 contains all the ingredients found in Vertex 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



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.**







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