

Time to Make Your Summer Plans



Summer Annual Product Guide





Summer Annual Grasses

Forage Sorghum

An excellent choice for one direct cut systems (like corn silage) on marginal corn ground or after double crops. Uses 30 to 50% less water than corn and less nitrogen too. BMR trait has improved forage sorghums dramatically, and they are now considered an excellent dairy feed. Energy levels are comparable to corn and protein levels are approximately 10 or 11%. Sugar levels are also very high. Consider Lallemand inoculant for great fermentation!



Direct Chop

- **KF FIBER PRO 50**—80-90 days—Brachytic Dwarf & BMR 6. 
- **AF8301**—100 days—Brachytic Dwarf.
- **AF7401**—110-115 days—Brachytic Dwarf & BMR 6. 

Have you seen this picture? It was taken back in 2011 by Tracy Neff, King's Research Agronomist. King's has been in the high quality sorghum business since the beginning!





Cut and Wilt

- **AF7201**—85-89 days—BMR 6. Cut & wilt @ 55-65 days.

**Considering
Male Sterile Sorghum?
Ask us about the options.**

Sorghum Sudan & Sudangrass

Multi-cut or graze options. High digestibility BMR 6 options available in addition to options with unique characteristics such as photoperiod sensitivity and dry stalk.

- **AS9301 Sudangrass**—BMR 6/dry stalk. 
- **AS9302 Sudangrass**—BMR 6/Brachytic dwarf/dry stalk. 
- **ADV S6504**—BMR 6/photoperiod sensitive. 
- **KF Sugar Pro 55**—BMR / dry stalk 
- **AS6401**—BMR 6/disease resistant.
- **AS6201**—BMR 6/fast starter.
- **AS5201**—Quick cover, non BMR.



Look for products with the Empyr® designation by Alta Seeds. This signifies the highest and most consistent quality and yield within the lineup.

Supply Note From Tim:

Due to challenging seed production conditions in the south over the last two seasons, many products will be tight in supply for the 2020 season. If you know your 2020 summer annual needs at this time, we suggest placing a timely order with your local dealer. King's AgriSeeds is dedicated to sourcing products that are proven in our region. For 2020, we anticipate the reality of making some substitutions in our product line. Between the experience and knowledge of our team and our suppliers, we will do the best we can in meeting your seed needs.

~Tim Fritz, President

Forage Millet

Similar to sorghum sudans with no danger of prussic acid. Millet needs a soil temperature of 65 degrees or more to germinate, and growth slows down when cool weather comes. Frost kills it, but it can still be grazed with no fear of prussic acid. It will tolerate wetter years better than sudangrass. Like sorghum sudans, it can use lots of nitrogen. Safe for grazing for both horses and mules.

- **KF Prime 180 & Prime 360**—Dwarf BMR with excellent regrowth and top yield potential.
- **Wonderleaf Pearl**—Leafy hybrid pearl millet. Non BMR.



Other Summer Annual Grasses

Teff is a very small seeded warm season grass that has fine leaves and stems. It is native to northern Africa and tolerates many soil conditions. Will make a very palatable dry hay that livestock and horses love. Crabgrass is a self seeding annual. Red River and Mojo are both forage types enhanced by coatings.

- **MasterGraze**—A high tillering BMR forage corn. The quality and yield are great on better soils in climates that are not on the hot side, thrives in temps in the 80's.
- **Moxie Teff**—High yielding variety that is coated with Yellow Jacket or OC coating.
- **Mojo Crabgrass**—Mixture of varieties. Later maturing. Complete with Yellow Jacket or OC coating.
- **SE Red River CT Crabgrass**—High forage and seed yield. Coated with absorbent and fungicide.

Late season stockpiled crabgrass can be a good option for carrying grazing later in the fall. Crabgrass holds it's nutritional value well and it's a self reseeding annual.



Maintain forage quality with forage treatments!

King's AgriSeeds is now a distributor for Lallemand Animal Nutrition!

For Summer annual crops, including very high moisture, we recommend Biotol Plus II: Biotol Plus II is a unique, OMRI-approved forage inoculant proven to enhance the ensiling fermentation process - reducing spoilage and forage losses while maximizing nutrient retention and dry matter recovery from preserved feeds. Biotol Plus II also increases fiber digestibility and helps maintain aerobic stability at feed out!

Control Ensiling Fermentation: 5/5
Enhance Feed Digestibility: 5/5



Summer Legumes

Summer Annual Legumes

Great cover crops with nitrogen production. Work well combined with grasses and brassicas for balanced cover cropping and forage production.

IRON & CLAY COWPEA

Summer annual legume for cover crop or forage. Can easily be mixed with other summer annuals.

Sunn Hemp

Summer annual legume cover crop. Can be used for vegetative grazing. Consider adding 8lbs per acre to pearl millet or MasterGraze.

Derry Forage Soybean

Group 6 forage soybean for wildlife.

Titan Forage RR Soybean

Group 7 forage soybean for wildlife. Roundup Ready.



Don't forget to inoculate your legumes.

It takes some time, but it's worth it. The summer annual legumes are untreated and require a supplementary inoculant to improve nodulation and encourage nitrogen production.



SEED STARTER PRODUCTS

Myco Seed Treatment MST – An all natural, NON-GMO seed treatment that increases seedling vigor and overall plant health through a healthier root zone. OMRI Approved.

GroPak™ – Hopper box seed treatment that replaces talc and graphite and speeds plant establishment. Contains S, MN, Mo, and Zn. Not approved for organic use or transitioning into organic.

GroPak SB™ – A soybean hopper box seed treatment that replaces talc and graphite, speeds plant establishment and stimulates lateral root branching. Contains Fe, S, Mn, Mo, Zn Bradyrhizobium japonicum, and Tricoderma virens. Not approved for organic use or transitioning into organic.



GroPak
with AgXplore's proprietary blend

Soil Conditioning Mixtures

Whether you are renovating an existing field or beginning a new forage field, these summer mixtures will help condition and prepare the ground for long term production. Also great for summer forage!

RAY'S CRAZY SUMMER™

A versatile warm-season mix that is made up of a diverse variety of stress tolerant summer annuals—cowpea, sorghum-sudans, pearl millet, radish, forage brassica and sunflower—and can be used as a short-term cover crop, a soil building transition crop to renovate depleted soils, a smother crop, a grazing mix, and a wildlife food plot. Also contains several blooming species that, if left to grow and flower, will attract beneficial insect species. Beneficial for both no-till and conventional-till management.



SUMMER SOLAR™

A diverse legume-forb cover crop mix of aggressively growing summer annuals, with possible dual use as a wildlife food plot. The mix includes four very different components—buckwheat, cowpeas, sunflower, and sunn hemp. These species work together to perform several functions during their brief growth period. Both conventional and organic growers will find this a useful break crop in between spring and fall crops that builds soil nitrogen levels and attracts pollinators and other beneficial insects. It can also be used in farmscaping strips to draw beneficials throughout the season.



SUMMER FEAST™

A high energy summer grazing or wildlife food plot mixture. Millet balances out the rich brassica with effective fiber, which slows rate of passage through the rumen. The two species provide a multi-level and more diverse warm weather forage, and the different growing habits complement each other well. Both species can uptake and use nitrogen quite well. This mix can be a good way to renovate a pasture.

MasterGraze + Sunn Hemp = Success!

Sunn Hemp adds protein to the superior fiber digestibility of MasterGraze

Planting rate? MasterGraze planted with a corn planter at 25K per acre + Sunn Hemp planted at 8lbs per acre.

How do I harvest?

- **Grazing**— Graze when MasterGraze gets to tassel stage.
- **Hay in a Day**— Mow in morning, wide swath, allow photosynthesis. NO tedding or conditioning. Needs sunny day for drying.

Grain Sorghum

Looking for an alternative grain crop? Grain sorghum can be high yielding with moderate production cost.

- **AG 1201**- 60 day RM, bronze grain, 34-40" height.
- **AG 1203**- 63 day RM, bronze grain, 34-40" height.
- **AG 1401**- 61 day RM, white grain, 30-36" height.

Grain Sorghum; A Viable Alternative Crop (Abbreviated)

By Dale Stoltzfus and David Hunsberger, Kings AgriSeeds Inc.

Dale Stoltzfus, a King's AgriSeeds dealer and producer from Schuylkill Haven PA, shares how several years ago he rented some land with very high deer population as well as some acres that he declares the "Lord did not create for the growing of corn!" Dale considered his options and although he was somewhat unfamiliar with the crop, he decided to try grain sorghum on a few acres.

The very first consideration with an alternative crop such as grain sorghum needs to be a viable market for the product; if you can grow it but cannot sell it, it is a useless exercise. We are fortunate in the Mid Atlantic to have a good demand for grain sorghum due to several bird food and dog food manufacturers. In fact, the demand is currently greater than the eastern markets can supply.

"What does it cost to grow?" Compared to corn, the seed cost is much lower at \$30.00 or less per acre. Yield target is usually around 100 bushels to acre. Fertility for grain sorghum is similar to that of corn so given this yield expectation the fertility requirement would be similar to that needed for 100-120 bushels of corn. Dale's highest yield to date is 123 bushels/ acre. As he is using grain sorghum on his poorest soils, he expects that better soils would yield more. However, his experience is that sorghum has a yield drag of approximately 40 bushels lower per acre compared to corn.

Along with fertility, chemical costs are also similar to corn. Broad leaf weeds are easy to control with a dicamba type of product, but grasses have proved to be more difficult to control. He has had success with some lower cost grass control if he can apply before the 3 inch height. Word to the wise is to scout your crop early and often in the first stage of emergence!

Harvest can be expected to be in late October or early November, depending on your location and the weather. Double cropping has not worked for Dale in the Schuylkill Haven area, but if you are farther south it may be an option.

Should you plant grain sorghum? Evaluate the crops currently under cultivation on your high deer pressure areas and on droughty soils and calculate the potential return grain sorghum could offer. Dale is currently set up to dry and store sorghum and has several strong relationships with brokers that can help producers find the best markets. Farming on marginal soils with tight margins is challenging under our current commodity price structure. Hopefully this information can be used to determine if you can be more profitable with an alternative crop.

For full article, visit <https://kingsagriseeds.com/grain-sorghum-a-viable-alternative-crop/>

Bring in the Bees increase your biological diversity from the soil to the air!

CLOVER POLLINATOR MIX- A blend of 7 different clovers, designed to provide constant blooms over the growing season. This mix contains annual, biennial, and perennial clovers, so years 1, 2 and 3 will all look different

Natra Phacelia - Phacelia offers fast early development for quick, competitive canopy. It spreads very quickly across the ground and restricts the growth of weeds. It's excellent for beneficial insects and works well as a cool season soil builder.



Many other flowering species available!

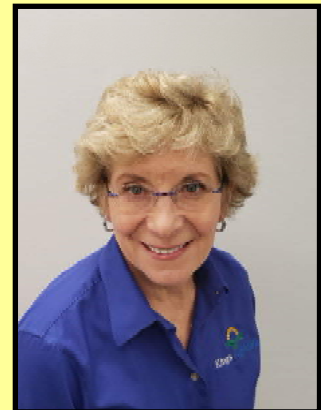
Considering Growing Hemp?

Industrial Hemp is grown for a wide variety of reasons, primarily Grain, Fiber and CBD. King's AgriSeeds can help you with all three!

Grain Hemp: CRS-1 & CFX-2

Fiber Hemp: Joey

CBD Hemp: AutoCBD



Sarah Mitchell
Industrial Hemp Sales Specialist

Visit KingsAgriSeeds.com/hemp for more information.

Searching for Something Else?

Here is a list of additional summer annuals that may be of interest to your operation. Get in touch with one of our dealers, or contact our home office for more info.

Brown Top Millet— Fast cover crop, great for upland birds.

Japanese Millet— Forage or cover crop.

Buckwheat— Very fast, flowering cover crop. Great biomass!

Peredovik Sunflowers— Big seed head with claw like root structure.

360 Soybean— Fantastic conventional grain bean.

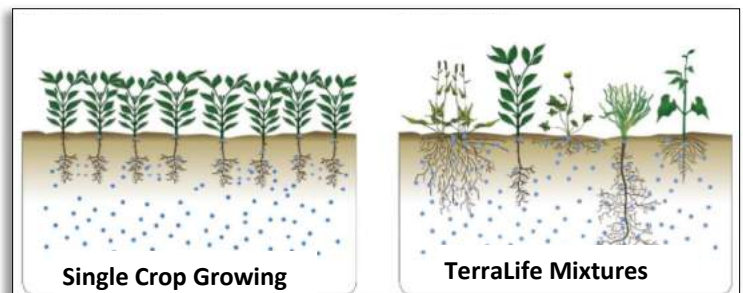
T-Raptor Brassica— Turnip like hybrid. High quality grazing.

And more!

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TerraLife® Mixtures

Developed by DSV based in Germany to improve soil structure, fertility and overall soil health and productivity. All mixes include a proportion of quick-growing species to effectively suppress weed growth. The species diversity creates excellent biodiversity and maximum variation in root development to ensure good soil penetration.



BetaMaxx— The cover crop mix for vegetable and sugar beet cultivation. It freezes off reliably and creates ideal seed bed conditions.



MaizePro DT-Balanced cover crop for corn production that is partly winter hardy. Leaves optimal soil structures, supports deep roots and is very good at nitrogen exploitation.

Rigol DT- Strong root growth stabilizes the soil structure with very deep roots to alleviate compaction.

VitaMaxx DT- Fast growing mix for intense livestock farms. Legume free nutrient scavenging.