

How's Your Vision?

We can help with a plan for 2020!

*"It takes as much energy to wish as it does to plan."
- Eleanor Roosevelt*



King's AgriSeeds Inc.

FEEDING YOUR FARM'S FUTURE.

2020 Early Order Programs Guide



Reducing Crop Risk - *Tim Fritz, Owner*



In recent years, growing a high-quality crop seems to be getting more and more challenging, as wet-weather cycles can be very difficult to break out of. Here in Lancaster PA, 2018 happened to be the wettest year on record, with very few periods of dry weather. 2019 doesn't seem much different as it has been another very wet year so far. Finding adequate windows for planting and harvesting crops has been a serious challenge and has taken a toll.

I have been taught over the years that we cannot control the uncontrollable. In eastern agriculture, we rely on a good balance of sun & moisture for our farms to thrive. Most of us simply cannot just turn on the irrigation system when we need the rain or turn off the water when it's time to harvest our crops. We have to learn how to work with the weather, which can be challenging especially in these extremely wet seasons. To reduce your weather risk, we recommend relying on more than just two basic crops. While the short-term advantages of a two crop system can be very high and rewarding, the risk associated is high and the crop rotation is weak. Weak crop rotations allow room for unwanted weeds, insects, diseases and other pests into that two crop system, either lowering crop yields and/or requiring more pest control inputs, neither of which are desirable.

King's AgriSeeds offers a multitude of species and mixtures to increase your farms' productivity through biodiversity. Biodiversity will benefit your soil health, increase your risk management, and ultimately long-term profitability. **Applications for Various Producer Types Below:**

... for Dairy and Livestock

Forage quality is paramount to dairy and other ruminant livestock profitability! Consider a more diverse forage program through utilizing more complex mixtures of both annuals and perennials that match your soils and local climate. Focus on products that have wide harvest windows that meet both production and quality needs. The crops adapted to your farm may be different from your neighbor but are certainly different from neighboring regions. The movement to all annuals is high yielding but very risky.

...for Grain

Adding diverse cover crops to a grain crop rotation has huge potential to improve soil healthy. A healthy soil will pay great dividends to the farm. Cover crops need to be planted in the appropriate planting window. On some farms, it may require rethinking the crops, the rotation and the crop maturities selected.

... for Hay

For hay producers, consider planting mixtures that will be ready for harvest at different time of the season.

Please consult with your local King's AgriSeeds dealer and the rest of your management team to build a productive system that reduces risks.



King's AgriSeeds, Inc

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Lancaster, PA 17601
(717) 687-6224
KingsAgriSeeds.com

Mission: To serve the agricultural community by providing premium seed along with relevant information to our seed dealers and their customers to develop productive cropping systems. We strive for a God honoring workplace where the gifts and talents of each team member is used for His Kingdom.



FEEDING PACK™ PROGRAM

The Pack is Back for 2020!



Our Feeding Pack program is designed to help you secure more of your seed needs in early orders and develop a cropping plan for your farm.

To qualify, you must order at least three qualifying products and a total of 10 or more units of qualifying products by December 31 to receive \$5 off per bag.

2020 Qualified Products

KINGFISHER PRODUCTS

Our multi-crop line that is built on classics and expanded with new favorites. Digestible energy is the KingFisher promise. The KingFisher lineup includes– Non GMO Corn, Alfalfa, Sorghum–Sudan, Millet and Italian Ryegrass.

RED TAIL HYBRIDS

The Red Tail Brand is the traited sister brand of the non – GMO KingFisher Corn Hybrids.

KING'S PERENNIAL MIXTURES

High energy perennial mixtures are at the forefront of the industry. We combine high energy grasses, legumes and forbs to create balanced mixtures focused on livestock.

ALTA PRODUCTS

Characterized by a highly pronounced BMR gene and the reduced plant lignin that comes with it, Alta products offer superior digestibility as well as fantastic yields across a range of management situations.

MASTERS CHOICE HYBRIDS

When you have a nutritionally superior hybrid that yields well, you have a recipe for profitability. MC 'Feeding Type' hybrids combine soft kernels with highly digestible stalks and leaves to create hybrids that perform in the field and in the barn.

Includes Your Favorite Brands:



Easy as...
1. Order Early
2. Pay Later
3. Save \$\$\$

Have a Large Order?
Ask your dealer if you qualify for larger volume discounts on your 2020 seed order.

FINANCE PROGRAMS—2020

PRE-PAY CREDIT PROGRAM: PAY & SAVE



King's AgriSeeds Inc.
FEEDING YOUR FARM'S FUTURE.

PROGRAM PERIOD	PREPAY CREDIT
SEPTEMBER 1 - OCTOBER 31, 2019	8%
NOVEMBER 1 - NOVEMBER 30, 2019	7%
DECEMBER 1, 2019 - JANUARY 15, 2020	6%
JANUARY 16 - JANUARY 31, 2020	5%
FEBRUARY 1 - FEBRUARY 28, 2020	4%

Pre-Pay and Finance Programs are for Spring 2020 Products.

JOHN DEERE FINANCE OPTIONS:



JOHN DEERE

Various options below. Minimum order is \$1,000

Spring & Summer 2020 Plantings	DEFERRED PROGRAM PERIOD	JOHN DEERE FINANCE OFFER	KING'S PREPAY CREDIT	CUSTOMER DUE DATE
	SEPTEMBER 1 - OCTOBER 31, 2019	PRIME - 2%	3%	IN FULL DECEMBER 2020
	NOVEMBER 1 - NOVEMBER 30, 2019	PRIME - 2%	2%	IN FULL DECEMBER 2020
	DECEMBER 1 - DECEMBER 31, 2019	PRIME - 2%	1%	IN FULL DECEMBER 2020
	JANUARY 1 - FEBRUARY 28, 2020	PRIME - 2%	0%	IN FULL DECEMBER 2020
	MARCH 1 - JULY 31, 2020	PRIME + 1%	0%	IN FULL DECEMBER 2020
Fall 2020	FIXED PROGRAM PERIOD	JOHN DEERE FINANCE OFFER	KING'S PREPAY CREDIT	CUSTOMER PAYMENTS MONTHLY
	SEPTEMBER 1 - OCTOBER 31, 2019	FIXED 0%	3%	10 EQUAL MONTHLY PAYMENTS
	NOVEMBER 1 - NOVEMBER 30, 2019	FIXED 0%	2%	10 EQUAL MONTHLY PAYMENTS
	DECEMBER 1 - DECEMBER 31, 2019	FIXED 0%	1%	10 EQUAL MONTHLY PAYMENTS
	JANUARY 1 - FEBRUARY 28, 2020	FIXED 0%	0%	10 EQUAL MONTHLY PAYMENTS
	MARCH 1 - JULY 31, 2020	FIXED 5%	0%	10 EQUAL MONTHLY PAYMENTS
FIXED PROGRAM PERIOD	JOHN DEERE FINANCE OFFER	KING'S PREPAY CREDIT	CUSTOMER PAYMENTS MONTHLY	
AUGUST 1 - OCTOBER 31, 2020	FIXED 5%	0%	10 EQUAL MONTHLY PAYMENTS	

Please note:
Signed JDF disclosure agreements MUST be submitted upon purchase.

KingFisher & Red Tail Corn Hybrids

When it comes to growing feed for livestock, your best return on investment is nutrient-dense forage. Good genetics are essential for the production of a high-quality forage, which is what we offer with our KingFisher and Red Tail program. We selected these quality hybrids for their above-average fiber and starch digestibility. We source the top genetics and make hybrid varieties available for a variety of soil conditions and regional climate differences and concerns. So you're sure to find a KingFisher or Red Tail corn hybrid that's just right for you.



Every KingFisher and Red Tail corn hybrid is ranked and rated using two key concepts to livestock feed efficiency: SofStarch™ and FiberGest™.



□ SofStarch™:

SofStarch corn has 10-15% higher starch availability than normal flint corns, reducing fed starch in the diet for KingFisher producers. Studies have shown that SofStarch type corn stays twice as long in a cow's rumen as normal flint corns. Slower passage through the rumen and faster digestion combine to increase the efficiency of the starch and other nutrients.



□ FiberGest™:

To make hybrid selection easier, our lineup is also ranked and rated for fiber digestibility, based on TTNDFD. FiberGest rates hybrids on a scale of 1 to 10, with 5 the industry average. Only selections with top tier fiber digestibility are advanced.



RT54T13 in Lancaster PA

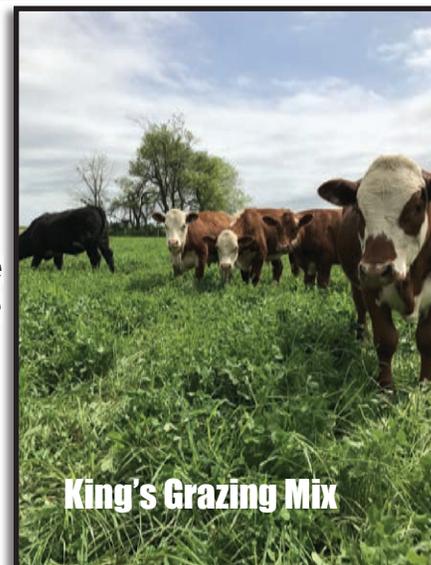
My Dad is amazed at the uniform ears, looking great on each tall stalk. He's a happy first attempt Red Tail farmer. -Janet Groff



Tailored Perennial Mixtures

We put it right on the bag– Tailored Perennial Mixtures. Our lineup consists of 25 perennial mixtures, containing varying amounts of alfalfas, grasses, clovers and forbs. We have mixes designed for all classes of livestock, soil types and climates within our footprint. These well balanced mixtures have been developed over many years with the help of our dealer network and from customers such as yourself.

Talk to your local dealer about how our mixtures may fit into your operation!



Grazing Options For All Livestock Classifications-

King's Grazing Mix

A highly palatable mixture of late heading winter hardy perennial ryegrasses, orchardgrasses, clovers and forage chicory. Excellent for high producing livestock including dairy, grass finished beef and goats. Chicory is included for better mineral nutrition and other animal health benefits.

- Best Use: Managed Grazing, Fermented Forages

Beefmaster

A premium pasture mix that consists of Barenbrug's best grazing tall fescues, orchardgrass, perennial ryegrass, and white clover. Excellent for beef grazing systems, along with dairy heifers and dry cows. Also available in 'Southern' Beefmaster– Complete with BarOptima E34.

- Best Use: Beef, Dairy Heifer, Dry Cow/Heifer Grazing

Horse Supreme

Excellent for all classes of livestock. Forage type Kentucky Bluegrass gives this mix excellent longevity and dense cover. Meadow brome and grazing tolerant orchardgrass add productivity during drought while the diploid ryegrass gives it a quick start and excellent spring and fall production. A touch of white clover has been added for nitrogen production.

- Best Use: Continuous Grazing, Managed Grazing

Browsemaster

A grazing mixture for small ruminants, complete with forbs for better mineral nutrition.. Makes a very attractive mixed stand.

- Best Use: Grazing for Goats and Sheep– Mixed Species Grazing

**All King's Perennial Mixtures
Qualify for Feeding Pack™**



Dry Hay Highlights

Lowland Hay

A late heading mix that tolerates wetter soils and has a wide harvest window. Tall fescue adds consistent high fiber digestibility, superb yields and traffic tolerance. Barfleo dries easily and does not absorb high potassium levels. Freedom! MR Red Clovers features mildew resistant characteristics. This mix can also be blended with alfalfa on marginal alfalfa soils

- Best Use: Dry Hay, Fermented Forages

King's HayPro

A well balanced mixture of leafy late heading grasses and traffic tolerant alfalfa that makes soft hay that livestock, calves, and horses love. Add it to dairy rations for a great source of high quality effective fiber to slow down the rate of passage without sacrificing production.

- Best Use: Dry Hay, Fermented Forages, Managed Grazing

Save your seed tags!

We have updated our perennial mixtures seed tags to provide you with helpful information as well as a place to write and record information regarding your plantings. We encourage you to keep them and file them away!

Fermented Forage Highlights

Northern Energy Mix

Designed to maximize the energy, digestibility and consistency available in a forage mix. It is ideal for dairy productions, grass-fed and grass-finished meats

- Best Use: Fermented Forages, Grazing

Southern Beefmaster

Tall fescue deserves more credit as a stored forage. This mixture is designed specifically for the south and features BarOptima Plus E34, Barenbrug's very palatable tall fescue with a beneficial endophyte that gives it more tolerance to heat and other stresses.

- Best Use: Fermented Forages, Grazing

A mixture is only as good as it's components!
We select from a global pool of seed genetics and screen them for performance in our region.

Thank you to our industry leading suppliers:



KingFisher Alfalfas

Twenty unique alfalfas offering a variety of solutions. For over 20 years we have selected alfalfas based on agronomic AND nutritional performance. We now have one of the largest and most unique alfalfa lineups.



Featured Products

NEW KingFisher Stronghold 35-2...Branch Root / Sunken Crown
Stronghold brings a great defense to our alfalfa line-up. Stronghold features a sunken crown for great traffic tolerance, while branched roots keep the plant firmly in the ground during freezing and thawing, and helps protect the plant from water damage by keeping more roots above the water table. Stronghold also features great winter hardiness and disease resistance. APH Race 2 Resistance.

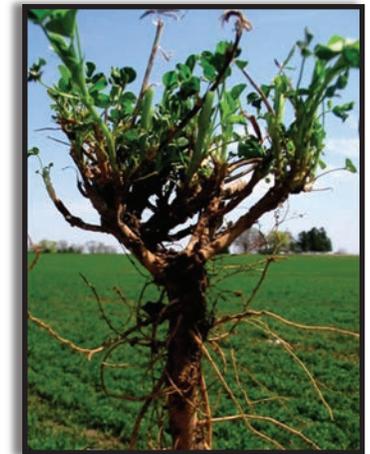
NEW KingFisher PLH 422...Potato Leaf Hopper Resistant
A new high performing PLH resistant variety of alfalfa. In addition to the Potato Leaf Hopper resistance, PLH 422 features multi-folate leaf structures for a higher leaf to stem ratio.
Fall Dormancy 4.2, Winter Hardiness 2.4, Disease Rating 30/30

NEW KingFisher 519...Multi-Foliate
A blend of 2 high yielding, fall dormancy 5 alfalfas. Blended alfalfas have been proven to boost productivity and increase stand health. Both alfalfas feature multifoliate leaf structures, which means a higher leaf to stem ratio and a higher feed value for your livestock.
Fall Dormancy 5, Winter Hardiness 1.9, Disease Rating 30/30

KingFisher 425 HD®...High Digestibility
KF- 425HD was bred for quality and delivers outstanding NDFD 48 and TTNDFD scores. With these high quality attributes, KF-425HD has comparable lignin ratings similar to the non- GMO low lignin alfalfas. KF-425HD has an excellent agronomic package that provides a very persistent and healthy plant for top production over a broad range of soils. HD® is a Registered Trademark of Legacy Seeds, Inc.



Branch Roots



Sunken Crown



Multi-Foliate

KF 425 Grand Champion Haylage @ WDE



What Goes Great With Alfalfa?
Grass! Combine these KF alfalfas with high energy grasses for optimizing forage quality and yield. Our perennial mixtures contain two or more KF alfalfas.

Thinking Cool Season Perennial Grasses?

Stability & Durability— Tall Fescue

Older varieties with toxic endophytes have given tall fescue a bad name. Tall fescue is a very stable grass, both agronomically and nutritionally throughout the growing season. Where many other grasses thin out, tall fescue keeps chugging along. Our lineup of tall fescues feature improved palatability are either endophyte-free, or contain beneficial endophytes for improved durability in warmer climates

Kora Tall Fescue—A late maturing, high yielding hay type fescue with improved digestibility. If quality and yield is your goal, this fescue is worth overseeding in your hay field. Endophyte free.

STF 43 Tall Fescue Blend—A blend of Barenbrug soft leaf, late heading varieties. Impressive yields of digestible fiber. Endophyte Free.

BarOptima Plus E34—A soft leaf variety with the E34 endophyte that improves the agronomics of the grass. Ideal for long term grazing and hay swards.

Martin II Protek—An early-medium maturing variety with the Protek endophyte, which defends the fescue from against insects feeding on the tillers and leaves

Yield Big - Modern Orchardgrass.

Orchardgrass has come a long way. These disease resistant varieties with specific features offer a wide range of production solutions.

HLR—Barenbrug's late maturing High Leaf Ratio,

Olathe—Big yielding, upright, early maturity.

Inavale—True medium maturity with high yield potential

Echelon—Late maturity with great palatability.

High Energy Grass - Meadow Fescue

High fiber digestibility is a key feature of high quality grass. While our entire lineup features products with improved forage quality, our lineup of meadow fescues stands out!

Meadow Fescue finds a good home north of Route 80

HDR Blend—Barenbrug's 'High Disease Resistant' meadow fescue.

Liherold—An early maturing variety with great winter hardiness and strong yields.

Tetrax—A tetraploid variety that is great for improving fiber digestibility in new alfalfa seedings.

"Meadow fescue has higher fiber digestibility (NDFD) than most other grasses grown with alfalfa in the northern U.S. Feeding trials across the U.S. show that a one percentage unit increase in NDFD increases milk production by 0.5 to 1.0 lbs/cow/day, and more than 1.0 lb/cow/day for the highest producing cows. Meadow fescue in combination with new reduced-lignin alfalfa varieties has the potential to produce a very high quality forage for lactating dairy cows."

— Alfalfa Grass Mixtures Update, Progressive Dairyman.

Contributed by Jerry Cherney, Debbie Cherney and Ken Paddock

Grass Features We Offer

- High Leaf to Stem Ratio
- High TTNDFD
- Late Maturing
- Early Maturing
- Medium Maturing
- High Disease Resistance
- Novel Endophyte
- Tetraploid



King's AgriSeeds Spring Product List

Perennial Mixes

	Wt.	Treat.	Seed Rate	Comments
King's Perennial Mixtures				
AlfaMate	33	MST	25 to 35	All grass mix to seed alone or with alfalfa. Makes soft hay and very palatable.
Balancer	33	MST	25 to 35	Balance of energy and protein, a high end mix of grasses and legumes. Featuring Martin II protek tall fescue
Creekside	33	MST	25	A highly palatable mix for wetter soils in cooler climates. Will form a nice sod to to handle foot traffic
Grass Maxx	33	MST	20 to 30	A rugged mix of Martin II novel endophyte tall fescue with early new-release orchardgrass.
GrassPro	33	MST	20 to 30	A mix of endophyte free tall fescue & late-heading orchardgrass & timothy. Great for stored feed.
Graze-All	33	MST	25	An all-grass long lived mixture designed for grazing by multiple livestock species.
Greenfast	33	MST	30 to 40	Aggressive 3 to 5 year mix. Good for shorter term pastures and renovation.
Highland Hay	50	CT	25	Easy to dry alfalfa grass mix. Will make a very nice mixed auction hay that will feed very well
Hillside	33	MST	25	A strong orchardgrass based grazing mixture. Great for good to drier soils.
King's Grazing Mix	33	MST	25 to 35	Our premier grazing mix designed for managed grazing. Including chicory for mineral nutrition.
King's Haymaster	50	MST	20 to 30	Easy to dry hay mix. Contains orchardgrass, Hakari brome, timothy & KF alfalfa.
King's HayPro	50	MST	20 to 30	An alternative to King's Haymaster Mix that includes soft leaf tall fescue instead of Alaska brome.
King's Horse Supreme	33	MST	25	Excellent horse mix with no tall fescue, can be used for all classes of livestock. Tolerates short grazing.
Lowland Hay	50	MST	20 to 25	A grass based, easy to dry mix for wetter soils, that includes Freedom red clover.
North Star	50	CT	18 to 25	An 85/15 blend of Kingfisher alfalfa with tall fescue and meadow fescue. Designed for Central PA and North
Northern Energy Mix	50	MST	30 to 35	A high energy and highly digestible grass/clover mix ideal for PA and further north.
NutraMax Hay Mix	50	CT	25	Highly digestible alf/clover/grass mix that is primarily adapted to central PA & north. Good haylage & baleage.
Performance Max	50	CT OC	20 to 25	70/30 blend of our Kingfisher alfalfas and late tall fescue. Consistent quality and high yield.
Sale Topper Grass Mix	33	MST	15 to 20	Easy to dry. 80% late orchardgrass & 20% timothy. Lower seeding rate with legumes (5 to 10lbs).
Versa Mix	33	MST	15 to 30	A versatile forage grass mix. 70% festulolium, 30% orchardgrass.
Barenbrug Perennial Mixtures				
Beefmaster	50	UT	30 to 35	Good for finishing beef. Contains perennial ryegrass, fescue, orchardgrass and clover.
Southern Beefmaster	50	MST	30 to 35	Southern version of Beefmaster featuring BarOptima plus E34, beneficial endophyte.
Browsemaster	50	YJ	22	A grazing mixture for goats, wildlife and more. Contains a lot of forbs.
Equinemaster Paddock	25	UT	30 to 100	For exercise areas. Contains soft leaf tall fescue, KY bluegrass and perennial ryegrass.
Milkway	50	UT	35 to 40	60:40 mix of meadow fescue and soft leaf tall fescue. Lower seed rate with legumes (3 to 10lbs).
CT=conventional coated, Apron treated, inoculated OC = organic coated, OMRI listed YJ=yellow jacket conventional coated Myco Seed Treat (MST) is an OMRI approved product that stimulates root zone activity.				

Alfalfa - Clover

	Wt.	Treat.	Seed Rate	Comments
Alfalfa				
A very productive drought tolerant legume that is high in protein				
KingFisher 101	50	CT OC	18 to 22	A respectable variety at a low cost. Replaces the Kingfisher Econo.
KingFisher 406AP2	50	CT OC	18 to 22	Resistant to multiple strains of aphanomyces and branch-rooted.
KingFisher 425 HD	50	CT OC	18 to 22	High yielding, selected for high digestibility. DRI 30/30, FD 4.5, WH 2.0
KingFisher 519	50	CT	18 to 22	A strong, multifoliate alfalfa blend with fall dormancy of 5. High yield and quality.
KingFisher Enhancer II	50	CT OC	18 to 22	An eye catching, high yielding, high quality alfalfa with Fall Dormancy 4.
KingFisher PLH 422	50	CT OC	18 to 22	High performing potato leaf hopper resistant variety. 30/30 DRI, FD 4.2, WH 2.4
KingFisher Profusion2 HX	50	CT OC	18 to 22	High yielding fine stemmed hybrid alfalfa with exceptional quality. Fall Dormancy 4.
KingFisher Secure BR	50	CT OC	18 to 22	A high yielding branch-rooted alfalfa that will tolerate wetter soils.
KingFisher Stonghold	50	OC	18 to 22	An exciting new alfalfa featuring both a sunken crown and branched roots. Great diseases resistance: DRI 35/35
KingFisher Traffic Pro	50	CT OC	18 to 22	High yielding alfalfa with a deep set crown that takes traffic well.
Brassicas				
High quality forage. Great for summer feed or late fall feed.				
Barkant Turnips	10 25	UT UT	4 to 5	A leafy variety with a tankard shaped bulb.
Barsica Rape	25	UT	4 to 5	A new forage rape that is fast maturing. Over-wintering.
T-Raptor Hybrid	25	UT	4 to 5	A turnip like hybrid that's super for multiple grazings (no bulb).
Bromegrass				
Offers good drought tolerance.				
Artillery Smooth Brome	50	OC	30 to 40	A new release Barenbrug variety selected for drought tolerance.
Carlton Smooth Brome	50	OC	30 to 40	An improved traditional smooth brome. Maintains green hay color.
Hakari Alaska Brome	50	UT	35 to 45	Quick establishment. Late maturing and excellent to mix with alfalfa.
Arsenal Meadow Brome	50	YJ	25 to 35	A new release Barenbrug variety selected for drier climates.
Montana Meadow Brome	50	OC	25 to 35	A new grazing type brome. Earlier maturing, produces well in dry weather.
Clovers				
Nitrogen fixing legumes. Inoculate at seeding				
Alice White Clover	25	YJ OC	2 to 4	Large leaf and medium height. Popular for grazing.
Alsike Clover +	50	UT	6 to 8	N source, tolerates flooding, poorly drained and acidic or alkaline soils. Not for horses.
Berseem Clover	50	OC YJ	15 to 20	An annual clover that resembles alfalfa. Winter annual in south. Summer annual in north.
Clover Pollinator Mix	5 25	OC	5 to 12	A mix of 7 clover species that will provide excellent nectar flow to pollinators. Updated formula includes Crimson Clover
Crimson Clover +	50	CT UT	15 to 25	A winter annual clover, good for hay, grazing and green manure.
Dutch-White Clover	5 25	OC	2 to 4	Excellent for between vegetable rows. For pasture it is lower yielding and low growing
Fixation Balansa Clover	50	CT	3 to 8	A cool season annual legume with similar winter hardiness to winter peas & crimson clover.
Viper Balansa	50	OC		
Freedom! MR Red Clover	25	YJ OC	4 to 20	A long lived, mildew-resistant variety with high yield and digestibility.
Ladino White Clover "VNS"	50	OC	5 to 9	Living mulch, erosion protection, green manure, beneficial insects.
Medium Red Clover "VNS"	50	CT OC	4 to 20	N source, soil builder, weed suppressor, attracts beneficials, forage.

Clover - Festulolium

Wt.	Treat.	Seed Rate	Comments
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Clovers (continued)			
Premium Clover Mix	25	YJ/CT OC	4 to 6 A mixture of premium red, white and ladino clovers. Seed alone or with grass.
RegalGraze Ladino	25	OC	2 to 4 A less aggressive large leaf white clover that tolerates heat, drought and cold very well.
Renovation White Clover	25	CT	2 to 4 A southern-bred white clover. Bred for persistence.
Yellow Blossom Sweetclove	50	OC	15 to 25 Deep tap root helps break up compacted soils. Little forage value.
3-Way Clover	50	OC	10 to 15 Clover mixture of Yellow Blossom Sweet Clover, Red Clover and Ladino Clover.

Cover Crops and Specialty Items			
<i>Seeding rate is for cover crop usage ONLY. The soil benefits are listed below.</i>			
Broadcaster	50	PI	25 to 30 Best seeded in late summer. Annual ryegrass, radish, crimson, red & yellow blossom clovers.
Braco White Mustard	50	UT	8 to 10 Bio-fumigant crop-disease & nematode suppression, break crop, quick cover, weed suppression.
Buckwheat "VNS"	50	UT	50 to 70 Cool season or summer quick soil cover, weed suppressor, nectar for pollinators, loosens topsoil.
Lifago Buckwheat	55	UT	25 to 35 A later maturing small seeded buckwheat for cover crop programs. Not for grain. Does not attract pollinators.
Lowboy Annual Ryegrass	50	UT	15 to 20 A dwarf-type annual ryegrass that has great cover crop applications. DO NOT USE FOR FORAGE.
CARGO Mix	50	PI	60 Grass-legume green manure, nutrient scavenger, nitrogen fixer, soil builder, and forage.
Clean & Green	50	UT	35 to 75 For conservation. 80% tall fescue and 20% annual ryegrass. Adjust seeding rate to erosion risk.
Companion Mix	25	UT	50 A mix for orchards, vineyards, and between vegetable rows that requires less mowing.
Daikon Radish	5	UT	12 to 14 Deep root growth, improves tilth, scavenges N, weed suppressor, bio-fumigant & break crop.
	50	UT	
Dutch White Clover "VNS"	5	OC	2 to 4 Excellent for between vegetable rows. For pasture it is lower yielding and low growing.
	25		
Peredovik Sunflowers	50	UT	40 A great sunflower for cover crop and wildlife programs.
Phacelia	50	UT	8 to 12 Excellent for beneficial insects including honey bees. Also a great soil builder.
AU Merit Hairy Vetch	50	OC	25 to 30 A high-yielding legume capable of producing abundant forage, fixing significant amounts of nitrogen, and attracting wildlife and pollinators.
Hairy Vetch "VNS" +	50	UT	25 to 30 Winter annual or summer annual legume, N source, weed suppressor, top soil conditioner.
Ray's Crazy Summer Mix +	50	UT	40 to 60 A 7-way mix for cover crop and/or forage. Includes grasses, legumes and brassicas.
Ray's Crazy Spring Mix	50	UT	120 An 8 way mix of fast growing forage and soil building species
Summer Solar Mix +	50	UT	50 to 70 Diverse legume-forb cover crop mix of aggressively growing summer annuals.

PI= Pre Inoculated

TerraLife Cover Crops			
<i>Taking cover crops to the next level</i>			
BetaMaxx +	50	UT	35 to 40 A cover crop mix for vegetables and beets.
MaizePro DT +	50	UT	35 to 40 A partly winter hardy cover crop mix for intensive corn crop rotations.
Rigol DT	50	UT	18 to 20 Strong root growth that stabilizes soil structure.
VitaMaxx DT	50	UT	18 to 20 Fast Growing, legume free mix, preserves nutrients over winter. Suitable for later sowing

Festulolium			
<i>Crosses of ryegrass and fescue. High sugars and reduced summer heading</i>			
Foitan	50	UT	30 to 40 A long lived heat tolerant Tall Fescue type with good nutrition.
Perseus	50	UT	30 to 40 A 3 year Italian Ryegrass type with excellent nutritional quality.

Exciting New Product Highlight—Ray's Crazy Spring!

Welcome the newest member of the Ray's Crazy Family of mixes! This new mixture is designed with the same goals as the Summer and Fall formulations— A dual purpose soil improving cover crop and high quality forage. This balanced mix contains a total of 8 species: Grasses, legumes and brassicas.

Meadow Fescue - Small Grains

	Wt.	Treat.	Seed Rate	Comments
Meadow Fescue				
<i>Very palatable and very cold tolerant. More summer productive than ryegrasses.</i>				
HDR Meadow Fescue	50	UT	35 to 45	Barenbrug's blend of high disease resistant meadow fescue.
Liherold Meadow Fescue	55	UT	35 to 45	A top performing variety with strong early growth.
Tetrax	55	UT	35 to 45	A tetraploid variety ideal to mix with new alfalfa seedings to increase energy levels in strong grass-growing regions
Miscellaneous				
Balin Kentucky Bluegrass	50	UT	15	Forage type with improved productivity.
Forb Feast Chicory	10	OC	2 to 5	Deep tap root. High mineral content. Helps break up hard pans.
	25			
Reed Canarygrass	50	UT	12 to 18	Very wet & drought tolerant. Once established it is very persistent. Low alkaloid.
Wellington Birdsfoot Trefoil	50	OC	20 to 25	A high yield hay variety that can also be used for pasture and conservation.
Orchardgrass				
<i>Good Drought Tolerance. All varieties are less bunched.</i>				
Echelon	50	UT	20	A very late heading and high yielding orchardgrass variety.
HLR Orchardgrass Blend	25	UT	20	Barenbrug high-leaf-ratio blend of late maturing, leafy orchardgrasses.
		YJ	23	Coated at 50% Yellow Jacket which improves seed flow.
	50	OC	23	Coated at 50% KF SureStand Hydro Green OC.
Husar	33	UT	20	An European leafy late-maturing variety.
Inavale	50	UT	20	A new medium-maturity variety by DLF that looks promising.
Olathe	50	UT	20	An early orchardgrass with high yield and disease resistance.
Persist NP	50	CT	20	High yielding, persistent, early variety selected in western TN under tight grazing.
Ryegrass - Annual				
<i>Best for late summer and early fall seeding.</i>				
Kodiak	50	UT	35 to 40	An annual ryegrass with superior cold tolerance. High yield and quality.
McKinley	50	UT	35 to 40	A new winter hardy variety with high yield and quality.
Ryegrass - Italian				
<i>Two year potential crop. Fast starting and very high quality.</i>				
Green Spirit Blend	50	UT	35 to 45	A Barenbrug tetraploid, diploid Italian blend Does not go to head when spring
Kingfisher Allegro Blend	50	UT	35 to 45	A Kingfisher tetraploid, diploid Italian ryegrass blend.
Ryegrass - Perennial				
<i>Highest energy grass. Great spring and fall production.</i>				
BG-24T Blend	50	UT	35 to 45	A Barenbrug blend of premium tetraploid & diploid varieties.
BG 34 Blend	50	UT	30 to 40	A Barenbrug blend of premium late heading diploid varieties.
Kentaur	50	UT	40 to 50	A tetraploid variety with excellent southern & northern performance.
Remington	50	UT	40 to 50	A tetraploid variety with excellent southern & northern performance.
Remington NEA2	25	UT	40 to 50	The most durable tetraploid in the line up. Includes a beneficial Endophyte.
Mixtures with Small Grains				
<i>Use higher rates with later planting.</i>				
CARGO	50	PI	110 to 130	Grass-legume green manure, nutrient scavenger, nitrogen fixer, soil builder, and forage.
Oats Plus Mixture	50	UT	75 to 90	For good quick feed. Contains 60% oats, 40% annual ryegrass .
King's Pea-Oat Mix +	50	UT	100	For grain or forage. A 50/50 mix of Proleaf 234 oats and 4010 peas.
Small Grains- Spring				
<i>Suggested for planting in the spring, or late summer for forage.</i>				
Arvika Spring Peas +	50	UT	80 to 100	A high-quality purple flower forage pea. Can be planted spring or fall. Small seed size.
AC King Spring Barley	50	UT	125 to 150	A strong two row spring barley that can be used for fast forage or grain.
Badger Oats	50	UT	100	A high yielding grain oat with high test weight. Also great short season forage-@ 150lbs/acre
Canmore Oats	50	UT	95 to 130	A taller grain variety that makes fast forage.
Everleaf 126 Oats	50	UT	95 to 130	Extremely high forage quality. Stays leafier, longer. Latest maturing variety.
Niagara Oats	50	UT	95 to 130	A new release Canadian forage oat replacing Forage Maker 50.
Reeves Oats	50	UT	95 to 130	A dual purpose oat that is taller and earlier than Jerry oats for fast forage or grain.
Spring Triticale	50	UT	125 to 150	Forage spring triticale.

Summer Annuals

Summer Annuals- Sudangrasses				
AS9301 *	50	T/UT	25 to 30	Sudangrass that dries down quickly with superb quality & yield.
AS9302 *	50	T	25 to 30	Dwarf version of AS 9301.
Summer Annuals- Sorghum Sudans				
C=concep T=treated UT=untreated *BMR Gene 6				
AS5201 Non BMR SSX	50	T/ UT	60 to 70	Low-cost sorghum sudan. Best for cover crop usage. Replaces Quick Cover.
AS6401 *	50	T/ UT C	50 to 70	Improved disease tolerance, regrowth & cold tolerance.
ADV S6504 *	50	T/UT C	50	A new, photo-period sensitive variety with higher sugar content. Good drought tolerance.
KF Sugar-Pro 55 *	50	T/UT	40 to 50	A new dry stalk BMR sorghum sudan.
Summer Annuals- Forage Sorghums				
C=concep T=treated UT=untreated *BMR Gene 6				
AF7101 *	50	UT C		Direct Harvest- Seed at 80K/acre. 82-85 days to soft dough stage. Cut & Wilt Harvest- Seed at 25 lbs/acre with a drill. 50-60 days to boot stage.
AF7201*	50	UT C		Direct Harvest- Seed at 80K/acre. 90-95 days to soft dough stage. Cut & Wilt Harvest- Seed at 25 lbs/acre with a drill. 55-65 days to boot stage.
ADV F7232 *	50	UT C	80 to 100K	105-110 days to soft dough stage. A medium maturity brachytic dwarf hybrid.
AF7401 *	50	UT C	80 to 100K	Full season dwarf forage sorghum with superior standability. 110-115 days to soft dough direct harvest.
AF8301	50	UT	100 to 120K	A dwarf non-BMR forage sorghum with excellent standability and yield. Excellent for dry cows, heifers, beef production, & mazes.
ADV F8322	50	C	100 to 120K	A SCA resitant variety on Non-BMR forage sorghum. 100 days to soft dough Excellent for dry cows, heifers, beef production, & mazes.
Summer Annuals- Grain Sorghums				
C=concep T=treated UT=untreated *BMR Gene 6				
AG1201	50	C	80 to 100K	A 63 day to mid-bloom hybrid with bronzer grain. 34-40"
AG1203	50	UT C	80 to 100K	A 63 day to mid-bloom hybrid with bronzer grain. 34-40"
AG1401	50	UT C	80 to 100K	A 61 day to mid-bloom hybrid with white grain. 30-36"
AG2103	50	C	80 to 100K	A 66 day to mid-bloom hybrid with intense red grain. 42-48"
Summer Annuals- Crabgrass, Millets, Teffs, & Miscellaneous				
Mojo Crabgrass	25	OC YJ	5 to 8	A forage variety of crabgrass. Seed very shallow on tightly packed soil after soil reaches 50F.
Red River Crabgrass	25	CT	5 to 8	Coated with a 50% absorbent, as well as Apron (fungicide).
Iron & Clay Cowpea +	50	UT	40 to 60	Summer annual legume for cover crop or forage. Can be mixed with other summer annuals.
Brown Top Millet	50	UT	10 to 25	A low-cost, one cut millet. Best suited for cover crop or wildlife use (low forage quality).
Japanese Millet	50	UT	20	Warm season, annual grass that can be used for forage or summer cover crop.
Wonderleaf Forage Millet	50	UT	10 to 20	Hybrid pearl millet leafy type. No prussic acid. Safe for horses.
KF Prime180M Forage Millet	50	UT	10 to 20	A new dwarf BMR millet with excellent regrowth & no prussic acid.
KF Prime360M Forage Millet	50	UT	10 to 20	A new leafier dwarf BMR that has no prussic acid.
Summer Feast Mixture	50	UT	10 to 20	A high energy summer grazing mixture. Contains Wonderleaf and T-Raptor.
Moxie Teff	50	OC YJ	5 to 8	Very good for dry hay. Seed shallow in a firm seed bed after soils are 60F.

Exciting New Product Highlight—ADV F8322

Alta's first Sugar Cane Aphid resistant variety of forage sorghum. This hybrid offers excellent standability, excellent yield potential for silage. The seedling vigor delivers strong plant uniformity. A higher grain, non-BMR variety.



Tall Fescue - Seed Inoculants

	Wt.	Treat.	Seed Rate	Comment
Tall Fescue <i>Offers excellent drought and heat tolerance.</i>				
BarOptima Plus E34	25	UT	35 to 40	Improved soft leaf tall fescue with a beneficial endophyte.
Cajun II	50	UT	35 to 40	An early, high yielding and durable variety with no endophyte.
Kora	50	UT	35 to 40	Very high yielding hay type with late maturity with improved digestibility with no endophyte.
Martin II Protek	50	UT	35 to 40	Martin II is an early-medium maturity, novel endophyte tall fescue.
STF 43	50	UT	35 to 40	A blend of soft leafed tall fescue varieties. Late maturity. No endophyte.
Timothy <i>Most palatable grass. Makes low potassium hay.</i>				
Barleo	50	UT	10 to 15	A little later than Climax. Very high quality. Excellent for hay and grazing.
Barpenta	50	UT	10 to 15	Very late maturing. Best in cooler climates.
Climax	50	UT	10 to 15	The old standard variety for the Northeast USA. Mid-maturity.
Zenyatta	50	UT	10 to 15	A new high yielding, early timothy.
Turf <i>Subject to sales tax if for residential use.</i>				
Sun and Shade	50	UT/YJ	175	A multipurpose fine leafed turf.
Turf Star	50	UT	300	A blend of Barenbrug's best soft leafed tall fescue varieties. Late maturity. No endophyte.
Water Saver Pro	50	UT	300	Turf type tall fescue blend. Excellent for durability and lower maintenance.
Seed Stimulants				
Myco Seed Treat (MST)	1 lb.	OMRI		2 to 8 oz. per 100lb. of seed An all natural non-GMO seed treatment that increases seedling vigor and plant health through a healthier root zone.
Myco Seed Treat (MST)	5 lb.	OMRI		
GroPak	12 lb.		3-8 oz	A hopper box seed treatment that replaces talc and graphite. Contains
GroPak SB	12 lb.		4 oz	A hopper box seed treatment that replaces talc and graphite. Contains micronutrients and trichoderma
Seed Inoculants				
N-Dure Alfalfa/Clover Inoculant	Pkg			For seed that was not preinoculated or coated. Treats 50lb
Prevail Alfalfa/Clover Inoculant	Pkg			For seed that was not preinoculated or coated. Treats 100lb
N-Dure Pea/Vetch inoculant	Pkg			For seed that was not preinoculated or coated. Treats 100lb
N-Dure Peanut inoculant	Pkg			For use on Cow Peas, Sunn Hemp, and Lespedeza. Treats 100lb
N-Dure Soybean Inoculant	Pkg			For use on Soybeans. Treats 300lb (6 units)



Certified Organic Products

	Wt.	Treat.	Seed Rate	Comment
King's Certified Organic Mixtures <i>Custom mixes are available but arrangements must be made in advance.</i>				
Dairy Green	50	OC	25 to 35	A mix that will thrive on good to moist soil.
Partner	50	OC	20 to 30	Grass hay blend to seed with alfalfa or alone.
Sale Topper	50	MST	15 to 20	Easy to Dry. 80% Orchardgrass & 20% timothy.
Star	50	OC	25 to 30	For dairy quality pasture on varying soil types.

King's AgriSeeds offers a robust Certified Organic lineup, including the mixes listed above, as well as various straight products. King's will be releasing its full Organic Product list for 2020 at a later date

Looking for a local dealer?!?

Check with your Regional Coordinator or visit our dealer locator @ [KingsAgriSeeds.com](https://www.kingsagri.com)



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