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Keep an eye on vour mail box for the 2011-12 **Masters Choice** Hybrid Guide. Evaluate your fields and tour local plots to know what works best on your farm.



Kingfisher Alfalfas

are selected for yield, quality and persistence. We get excellent farmer feedback.



Kingfisher alfalfas mixed with our highly digestible grasses are excellent milk makers and yield better than alfalfa or grass alone.





2011 Late Summer Newsletter

Our Expanding Mission to Better Serve You.

other crops such as Masters barley. Choice corn, Kingfisher forages.

years ago we enhanced our forages are at the cover crop program beyond heart of King's our winter and summer AgriSeeds. annual forages and added make high quality forage inoculants. However, forages, our warehouse restricted us things must come from expanding into other together on the crops. This winter we moved farm. Our Product the business to Ronks Road Information Guide into a much larger warehouse is loaded with with a large climate controlled management room for sensitive products. information along With these new facilities, we with the genetics to now have the space to offer build a successful a more diverse product line. forage Starting this season, our built inoculant program will now sound agronomic include a dry flowable product principles for your in addition to the current farm. With the help

founded in 1993. Initially, Also, for the first time we will right forages for your soils our focus was primarily on be offering Culbac, an exciting and develop a healthy crop grasses, which then grew hay preservative and two new rotation and you are on the to include highly digestible crops for King's, wheat and way to better productivity.

program around

King's AgriSeeds was water soluble Agmaster line. of your local dealer, select the If you are feeding dairy and Our goal of serving you other ruminants, feeding a alfalfas, TriCal® triticale, and with the best products has high forage diet is one of the many other highly digestible not changed, as we remain keys to financial success. One committed to our core business of our forage goals is to help Today our mission is of providing a complete line you produce high tonnage growing broader to serve you of highly digestible forage of the right kind of forages in more ways. About three genetics. Highly digestible to make feeding high forage diets successful.

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- King's Cover Crop Program

Inoculants for **Fermented** Forages and **High Moisture** Grain.

You can grow the best forage possible but if it is not harvested and properly preserved then your valuable forage resources can be reduced in both quality and Bacteria, yeast, tonnage. and other microfungi organisms consume your forages. Preserve your quality by drying the crop in the field as fast as possible and applying the appropriate inoculant for fermented feeds.

Agmaster haylage includes inoculant Lactobacillus plantarum and Pediococcus acidilactici for a fast fermentation. Research has shown that cows fed haylage treated with Agmaster produced 2.2 pounds more milk per day!

Agmaster corn silage inoculant includes Lactobacillus xylosus and Pediococcus acidilactici to improve fermentation and bunk life. University trials have shown that Agmaster treated corn silage has better bunk life and once fed to cattle improved daily gains.

Agmaster Lb for high moisture grain and corn silage contains the bacterial strains

Lactobacillus buchneri. This and mycotoxins. inoculant is very effective Hay is mixed with water and in slowing yeast growth and sprayed on the crop ideally thus improving bunk life and during mowing or right after minimizing nutrient losses at mowing. Bale hay at 18 to time of feed out.

Agmaster DG 100T Multi-crop inoculant includes Lactobacillus plantarum and Pediococcusacidilactici. This new dry granular product is for all fermented forages and grains. Great for farms that prefer a granular inoculant program for multiple crops.

Hay Preservative

Culbac® Hay - Higher moisture baling in combination with Culbac increases forage yield and quality by reducing leaf loss, heat damage and It also decreases time to baling which reduces weather risks. Culbac is not a productivity. harsh propionic acid product. It is a liquid Lactobacillus Acidophilus fermentation product that promotes the growth of beneficial bacteria



Retain your alfalfa leaves and reduce molds! Bale alfalfa Culbac treated hay at 18 to 23% moisture for great quality hay.

Pediococcus pentosaceus and that in turn reduces molds Culbac 23% moisture with Culbac Hay to increase protein and energy.

Small Grains -**Multi-Purpose** Crops. Forage. Grain, Straw and **Cover Crops**

Small grains can used for many purposes and they are relatively easy to establish, but as with most crops proper timing, seeding rates and depth are important for success. Of course, many other management factors and inputs are needed for maximum

Note: Occasionally under notill conditions some rotational crops may be suppressed in cold wetter years due to a natural chemical release from decaying roots called allelopathy. Cereal rye has the largest potential. This affect also helps control many weed species. Tillage and manure applications dramatically reduce allelopathic effects (both positive and negative effects).

Wheat

Wheat is used primarly

Wheat can also be fed to recommended. livestock but quantities should not exceed one third of the grain for ruminants. Also, grain is the primary goal of the cropping cropping.

south include: to improve the soil.

a high yielding top end multipurpose wheat and we found it. W1566 is a new cover crop awnless red winter wheat variety also has excellent soil. forage potential but is not as high yielding as our TriCal®

region with the grain of soft have very good standability, winter feed barley having red winter wheat primarily In areas with fusarium very good straw strength, used for cookies and pastries. head scab, a fungicide is high test weight and bright

Barley

Barley is the earliest leader. grain elevators now screen harvest grain in our area for mycotoxins. If marketing allowing for excellent double to lower the risk of rejection primarily used for livestock excellent at the mill. Wheat can also grain but can also be used and yield potential. cropstofollowwheatharvested as a forage are less than most flag leaf or soft dough stage. for grain in southern PA and other alternatives. Barley can soybeans, also be used as a cover crop various sorghums, sudans but must be seeded at the W1566 - You asked for awned (bearded) varieties.

wheat varieties. This taller cover crops to improve the

for grain and straw in our a taller variety, W1566 does (fully bearded), six-row hulled plump seed.

> Thoroughbred is a medium height barley and is a yield

Valor Barley - Coming opportunities. in 2012. A new winter barley crop, manage for head scab Barley grain in the east is release from Penn State with be used for forage and cover in multi-grain breads and new variety is awnletted other products. The straw (very short awns) and is a Ideal uses: grain and is also of excellent value, taller variety making it an straw. Other uses: forage and Barley can also be used as a excellent multi-purpose crop. forage in the flag leaf stage. An excellent choice for grain, Crop Rotation: Excellent or soft dough stage. Yields straw and forage at either

Triticale

Our TriCal® Triticales are and their crosses, and teff. proper timing which is just the best choice for forage, as In northern areas, consider before wheat dates. Awnless their yield is typically 50% summer seedings of perennial or awnletted varieties are more than other small grains forages or various cover crops preferred by many producers with the exception of spelt. for straw and soft dough forage Yields of three tons of dry because of the "itch factor" of matter are common at the flag leaf stage which is ideal Ideal uses: grain and straw for high producing dairy cows. Other uses: forage and Yields of six tons are common when harvested at the soft Crop Rotation: Excellent dough stage. (Note: Soft release from Syngenta that is crops to follow barley dough stage harvest is not a true multi-purpose variety. harvested for grain include: recommended for lactating Excellent grain and straw soybeans, various sorghums, dairy but is an excellent dry vields. W1566 grain yields sudans and their crosses, and cow and heifer forage if high are among the best of the teff. Less aggressive options tonnage is the priority or if industry, but straw yields are include summer seedings of weather conditions are poor about 50% higher than most perennial forages or various during flag stage to boot stage.)

Triticale has many uses, as it is not only excellent for forage, but also great for straw **Thoroughbred** is a high and livestock feed. For forage, triticale varieties. Although yielding, full season, awned harvest at flag stage is ideal;

for head straw, cut during TriCal. 718 has the highest summer seeded crop will do is wider than cereal rve. rvegrass as well as 815.

Ideal use: Forage

Other uses: livestock grain, straw and cover crop

Crop Rotation: When harvested as forage at flag leaf, corn for silage is an excellent choice along with most other summer seeded crops. When harvested as soft dough silage or grain, please refer to the wheat comments above as the crop is harvested about the same time as wheat.

TriCal 815 - Our tried clover where adapted. 815 is provides fiber. included in King's Triticale plus mixture which is ideal harvests making superior cover crop. forage quality and excellent vields.

pollen shed; for livestock yield potential of all the well, but corn for grain will grain and straw, combine at current available TriCal be a little on the late side. the same moisture as wheat. varieties adapted to the When harvested as grain, Note: For flag leaf forage Mid-Atlantic and Northeast. late summer perennial forage harvest, we highly recommend Excellent for mixing with seedings and cover crops for wide swath mowing and oats for early seeding where a soil improvement are the best aggressive tedding to reduce fall harvest is desired. Note: options. drying time which results in 718 is not recommended to be increased energy. The yield of mixed with annual ryegrass triticale forage is impressive as it is a tall variety and does spelt with no wheat genetic and the harvest window not complement annually influence. Oberkulmer is a



TriCal 718 Seed Production Field in NY. 718 is a tall variety with great

Spelt

and well proven variety grain. Spelt can be used crop it can also be rolled for that has superior tillering either as forage or grain. As a no-till vegetable production resulting in thick stands that forage, it is very high yielding and other crops. Its primary yield very well. TriCal 815 and has a very wide window strength is that it can be typically has the best forage of harvest. It is also dry seeded later than any other digestibility of all the triticale stemmed, making it easier to crop and for forage it is the that we have sold. 815 is a dry than other small grains. earliest crop to be harvested. great variety to mix with As a grain, it feeds similar From a forage perspective, annual ryegrass and crimson to oats as it has hull on that the primary negative of rye

Ideal use: Forage

Other uses: livestock grain, for two aggressive spring specialty grain, straw and Forage

> Crop harvested as a forage which grain) is about 2 to 3 weeks after

Oberkulmer - A true very tall variety with very high yield potential.

Comet - A shorter variety with high grain yield and lower lodging risk. Ideal for feeding grain to livestock but can also be used for forage.

Cereal Rye

The earliest maturing small grain that can also be seeded the latest into the fall. Rye in the majority of mid-atlantic and northeast is primarily used as a forage The latest maturing small and cover crop. As a cover is that the harvest window is very short!

Ideal use: Cover Crop and

Other uses: Head straw Rotation: When (mowed for straw before

Crop Rotation: TriCal 718 - Our newest cereal rye, just about any summer crops do very well

seeded crops such as alfalfa few short years. and cool season grasses are not recommended to be seeded into rve.

earlier than our triticales.

down.

Annual Forage and Cover Crops

recommend mixtures. These next crop. products make tremendous forages and excellent cover crops.

Grasses

and annual ryegrasses) from a cover crop and soil perspective excess mobile nutrients such stronger winter hardiness. as nitrogen and sulfur from leaching beyond the root

following rye. However, early break up hard pans over a winter hardiness.

Annual Ryegrass

been grown in the south for forage and/or cover.

proven winter hardy variety that has consistently given The grasses (small grains great results.

reduce soil erosion, scavenge that was bred in Missouri for MO1 and KB Royal) that

zone and build soil organic bred for quick emergence and beauty of this mix is that the matter. Our winter hardy cover. Has done very well in oats will give quick growth annual ryegrasses also can our plots and has very good and winter protection of the

Spring Oats

Spring oats seeded in late Annual ryegrass has summer makes excellent Huron Brand - A leafy decades, but in last ten years excellent quality forage and later heading rye that is our or so winter hardy varieties yields, seed forage varieties top choice for forage. Huron of annual ryegrass has been at least 30 days prior to is about four to seven days successfully grown well to the recommended wheat planting later than early rye varieties north for both forage and cover dates. Yields of our forage but are still about a week cropping. The forage is very oat varieties can be as high high in energy, has multiple as three tons of dry matter. cut potential and has a very Spring oats typically winter **Aroostook** - This is a wide harvest window. From kill when temperatures reach medium maturing rye that a cover crop perspective, it is the lower twenties. For cover was bred to handle later low cost, fast emerging and crops, seeding dates can be as seeding and has extreme the roots are very active in late as about two weeks prior It is the winter months. The roots to wheat dates to give good also stemmier than Huron build soil tilth and actually soil cover and cover surplus making it the best choice for break hard pans when used nitrogen. Spring oats are an cover cropping and rolling regularly. Please refer to page excellent crop to set up an early 14 of our Product Info Guide spring seeding of perennial for details of management, forages such as alfalfa, clover, as this crop is not a small and/or grasses as weeds are grain and requires different typically suppressed and the management. We include dead crop material makes a our winter hardy varieties in nice seed bed. For this late several mixtures. Caution: summer, spring oats may Many varieties are not winter be in tight supply, as the For forage production hardy and the ryegrass must wet spring impacted seed and cover crops, we highly be killed properly before the oat acreage and availability dates. Our current varieties are Everleaf 126, Viking, Marshall - A very well Jerry and Reeves.

> Oats Plus - Oats plus is a mixture of 60% Jerry Oats and 40% of our three top MO1 - A newer variety annual ryegrasses (Marshall, are all winter hardy. Late summer seeding dates are KBRoyal-Anewer variety similar to spring oats. The

annual ryegrasses, even though the oats freeze out. Over the winter annual ryegrass roots continue to grow and are ready to support early spring growth for forage and/or cover in the spring. Please refer to page 14 of our Product Info Guide for spring management of annual ryegrass.

Trit-Oats - A small grain mixture of 57% TriCal 718 triticale and 43% Oats (Jerry or Viking as available). Trit oats gives excellent forage tonnage and cover in the fall. Once a hard freeze occurs, the oats will freeze out leaving TriCal for spring growth for high quality forage and/or cover. Late summer seeding dates are similar to spring oats.

Double play is a mixture of 45% TriCal 815, 33% Oats (Jerry or Viking as available) and 22% of our annual ryegrasses. This is the mix for the farm that wants some of the features of both Oats plus and Trit-Oats and offers good diversity. Late summer seeding dates are similar to spring oats. Please refer to page 14 of our Product Info Guide for spring management of annual ryegrass.

Triticale Plus - Our top choice for seeding at barley to early wheat dates. This combination of 67% TriCal 815 and 33% of our winter hardy annual ryegrasses

Royal) is ideal for making high tonnage and superb quality over two cuts. Up to 6 tons of dry matter (18 ton at 67%) of highly digestible forage when harvested as two cuts (1st cut around cereal rye dates and a 2nd cut typically three weeks later). A great forage and cover crop. For a higher level of protein and nitrogen production, simply crimson clover in your small box. For best crimson clover results, seed at recommended barley dates.



Triticale Plus with Crimson Clover is both a tremendous forage and cover crop.

Legumes

The legumes have the ability to fix nitrogen from the air and thus make "free" nitrogen and low cost protein. Annual legumes, such as crimson clover and hairy vetch, can be seeded with many of our grass mixtures to increase protein content of

(Marshall, MO1, and KB forages and/or add nitrogen fertility to soil.



Crimson clover is the earliest flowering annual legume. After it flowers, it can release 70 to 130 lbs of nitrogen to the following crop. Consult your dealer, for local recommendations.

Forage Products Alfalfa

Kingfisher 525, Kingfisher Excelerator, Kingfisher Enhancer II Kingfisher OR24 Kingfisher LHR67

Red Clover

Freedom! Cyclone II Start

White Clover

Alice

Regalgraze Ladino

Red and White Blend

King's Premium Clover Blend

Cover Crops

Alfalfa

Kingfisher Econo

Clovers

Common Medium Red Clover Ladino Clover **Dutch White Clover** Yellow Blossom Sweet Clover Alsike Clover Crimson Clover

Hairy Vetch

Purple Bounty Common

Brassicas

The brassica includes daikon are high quality but some mix them with oats. have toxins, so be careful on what you intend to do with that are beyond the depth of decomposes in the soil. To bio fumigants.

Daikon Radish - A late crop. summer seeded cover crop that can also be grazed if desired. Produces large carrot-like roots that help break up compacted soil below the tillage zone. Daikon radish is a fast starting cover that smothers weeds quickly, but will winter kill like spring oats. An excellent recycler of calcium, nitrogen, phosphorus and sulfur. For best results seed about 4 to 6 weeks before wheat dates which is the same time period that oats are seeded for forages. This fall we are marketing both daikon radish and Nitro-Radish.

Appin and Barkant Turnips - Turnips are excellent for grazing and can also be used as a cover crop with similar benefits as daikon

family dramatic of a root and are sweet clover. radish, less aggressive as a smother a mustards, turnips, rape and cover crop, but unlike daikon many other winter annual and the many brands of cover balanced mixture of Jerry forbs can also be used as both crop radish, turnips are more Oats and Hairy Vetch (Purple forage and cover crops. From compatible to mix with other Bounty if available) and works a forage perspective, many crops. For forage, we like to from North Carolina to Maine.

the crop. From a cover crop - Got harmful nematodes? from weed pressure and gives perspective, this family has Braco is a natural fumigant the hairy vetch protection tap roots, which penetrate which suppresses nematodes from winter extremes. This deep into the soil, breaking and recycles nutrients very cover crop is an excellent pans and recycling nutrients efficiently. The foliage quickly nitrogen producer. shallow rooted crops. Many of use as a fumigant, mow or these crops also help suppress flail chop and incorporate Crimson Clover, nematodes and can be used as immediately into the soil just hardy Annual Ryegrasses prior to flowering. Note: We and Oats. It is a superb do not recommend as a forage cover crop for south of I-78 in

King's Cover **Crop Program** Late Summer **Mixtures**

Broadcaster broadcasting in late summer with moisture. Will improve soil in many ways including; nitrogen fixation, soil tilth and drainage. Can be broadcasted with hand seeders, high boy seeders and by airplane or helicopter. Great for seeding into a living corn crop and open fields. Includes our winter hardy annual ryegrasses, crimson clover, common medium red clover, daikon

radish. They do not have as radish, and vellow blossom

Vetch Oats - This is a well The oats, which winter kill in most areas, help protect the Braco White Mustard slow establishing hairy vetch

> Cargo - A mixture of southern Pennsylvania and further south. The benefit of the Crimson Clover is that it flowers early, thus will fix nitrogen earlier in the spring compared to other legumes. The oats give quick cover, weed control and winter protection of the Crimson Clover and Annual Ryegrass. The Annual Ryegrass has a very extensive root growth and improves soil structure better than cereal small grains.

Note: Due to some seed shortages availability of individual products may be limited and mixtures may be modified if needed.