

"I never dreamed of yields like that..."

bushel increase

"We had a 20 bushel increase on corn..."

groundbreaking fertilizers

"You see a real difference..."

real difference

"Great stands — I'm happy with this fertilizer."

"A healthier plant...and more pod development."

healthier plant



KUGLER

Keeping *Quality* First

Kugler KQ-XRN®: Its reputation is

High quality slow release N that stays put longer.

Growers across the Midwest are raving about Kugler KQ-XRN®—the only slow-release nitrogen of its type. Kugler KQ-XRN is a 28% nitrogen solution—72% of which is slow release nitrogen that stays on the job for weeks, with no burning and no phytotoxicity, even at high application rates.

Kugler KQ-XRN delivers high quality nitrogen from furrow to foliar, with reduced leaching and reduced volatilization—keeping essential N in place and available to your plant. The result: Dramatic improvement in plant health all season long—increasing stress tolerance and optimizing yield performance.

Kugler KQ-XRN coats leaf tissue and stays put, allowing the plant to easily absorb nitrogen over time. The photo below/left shows corn leaves immediately after a foliar application, while the photo below/right shows KQ-XRN is still on the job 72 hours later.

Kugler manufactures slow release nitrogen using processes that nobody else uses—or has even figured out. This proprietary approach truly makes Kugler KQ-XRN one of a kind in the marketplace—and in your field.



growing.



The Perfect Delivery System™ for Crop Protection Chemicals

Kugler KQ-XRN has unique adhesive qualities that help it stick to the plant for an extended period—delivering nitrogen through the leaf for days, even weeks, at a time. Kugler KQ-XRN coats the leaf tissue with a clear film that lasts for weeks. It penetrates the waxy layer of leaf tissues to deliver nutrients for up to 35 days.

This “stickiness” also makes KQ-XRN the Perfect Delivery System™ for crop protection chemicals such as glyphosates and fungicides. Your crop gets a much needed nitrogen boost at critical growth stages—one that’s crop-safe so you don’t have to worry about burning. And you get greater efficiency from your chemical since it sticks to the plant and stays on the job longer—attacking weeds and disease for optimum results.

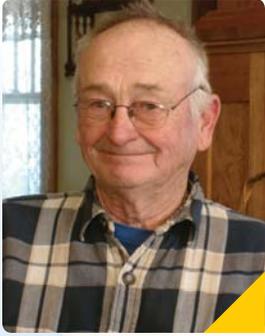
“I never dreamed of yields like that...”

“We use Kugler KQ-XRN for the extra shot of nitrogen and a sticking agent for other chemicals. We got around 170 bushels per acre on our corn up on dryland hills. I never dreamed of yields like that before. We had a pretty good part of our milo go to 138 bushel last year, and that’s the highest I ever had.”

Raymond Schneider
Covert, KS



KQ-XRN is especially suited for foliar application—and mixes well with crop protection chemicals.



“We had a 20 bushel increase on corn...”

“I’ve used other fertilizers, and I’ll take KQ-XRN any day over the others. The first year I used KQ-XRN, we had a 20 bushel increase on corn. Other fertilizers burn the tassels. You can put KQ-XRN on late and it won’t hurt your corn.”

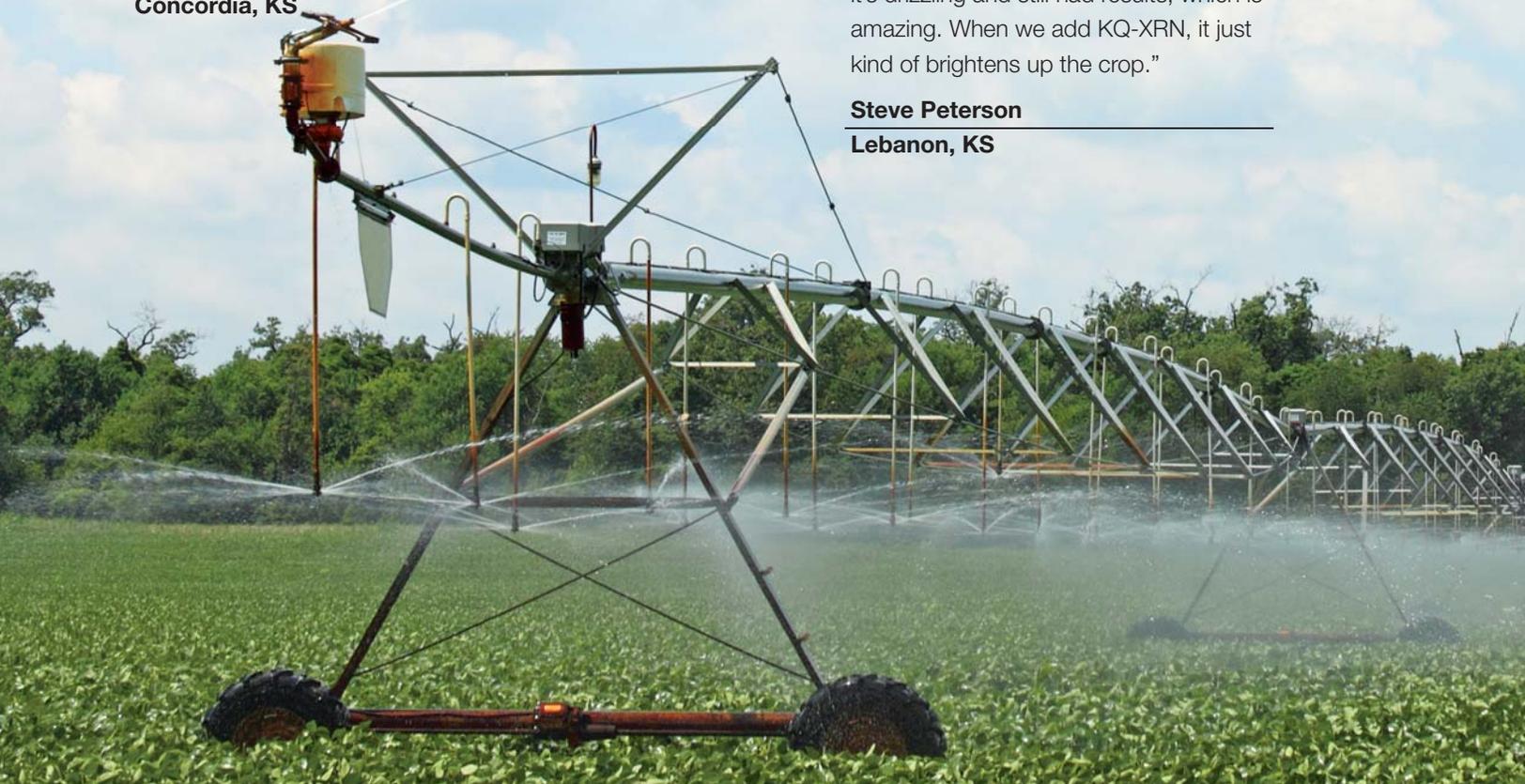
David Carlgren
Concordia, KS



“It just kind of brightens up the crop...”

“The results are phenomenal with the kill you get on the weeds and then you also get the benefit of the fertilizer that goes onto the corn. When you spray on KQ-XRN, it adheres to the plant and it’s not going to rinse off in a rain like a chemical that’s mixed with water. I’ve finished fields when it’s drizzling and still had results, which is amazing. When we add KQ-XRN, it just kind of brightens up the crop.”

Steve Peterson
Lebanon, KS





“Glyphosates stay on the job longer...”

“When you apply KQ-XRN, the plant just turns into this super high-gloss plant. The whole field looks that way—and you can come back 72 hours later and still see signs of XRN going into the plant. If it’s carrying glyphosates, it’s carrying those into the plant. Instead of trying to get into that plant within the first three hours, the time is extended.”

Ryan Mulenhoff
Kugler Dealer
Leigh, NE



KUGLER

Keeping *Quality* First

From furrow to foliar.

Many Kugler fertilizers—including low salt starters—include Kugler KQ-XRN technology to provide an initial serving of N when the root system begins to develop. The premium quality nitrogen in Kugler KQ-XRN reduces leaching and volatilization, and that means “the N is near” for your plants for a longer period of time.

The low salt formulation of Kugler KQ-XRN makes it perfect for foliar application—through sprayers, pivots or by air. KQ-XRN is virtually pH neutral. That means no leaf burn or crop damage. It also means that KQ-XRN is especially equipment friendly—non-corrosive and easy to apply.

Kugler KQ-XRN: We make it.
We sell it. And nobody can match
its quality and performance.



Visit www.KQXRN.com to see what growers across the Midwest are saying about Kugler KQ-XRN!

1.800.445.9116 ▲ www.KQXRN.com ▲ www.KuglerCompany.com

Kugler products are perfect for foliar



“Not just a fertilizer...”

“Kugler KQ-XRN is not just a fertilizer; it’s the sticky characteristic plus a slow release nitrogen. When that herbicide ties into the molecule of the fertilizer itself, it has a dual purpose that actually goes into the root zone and kills for a longer amount of time.”

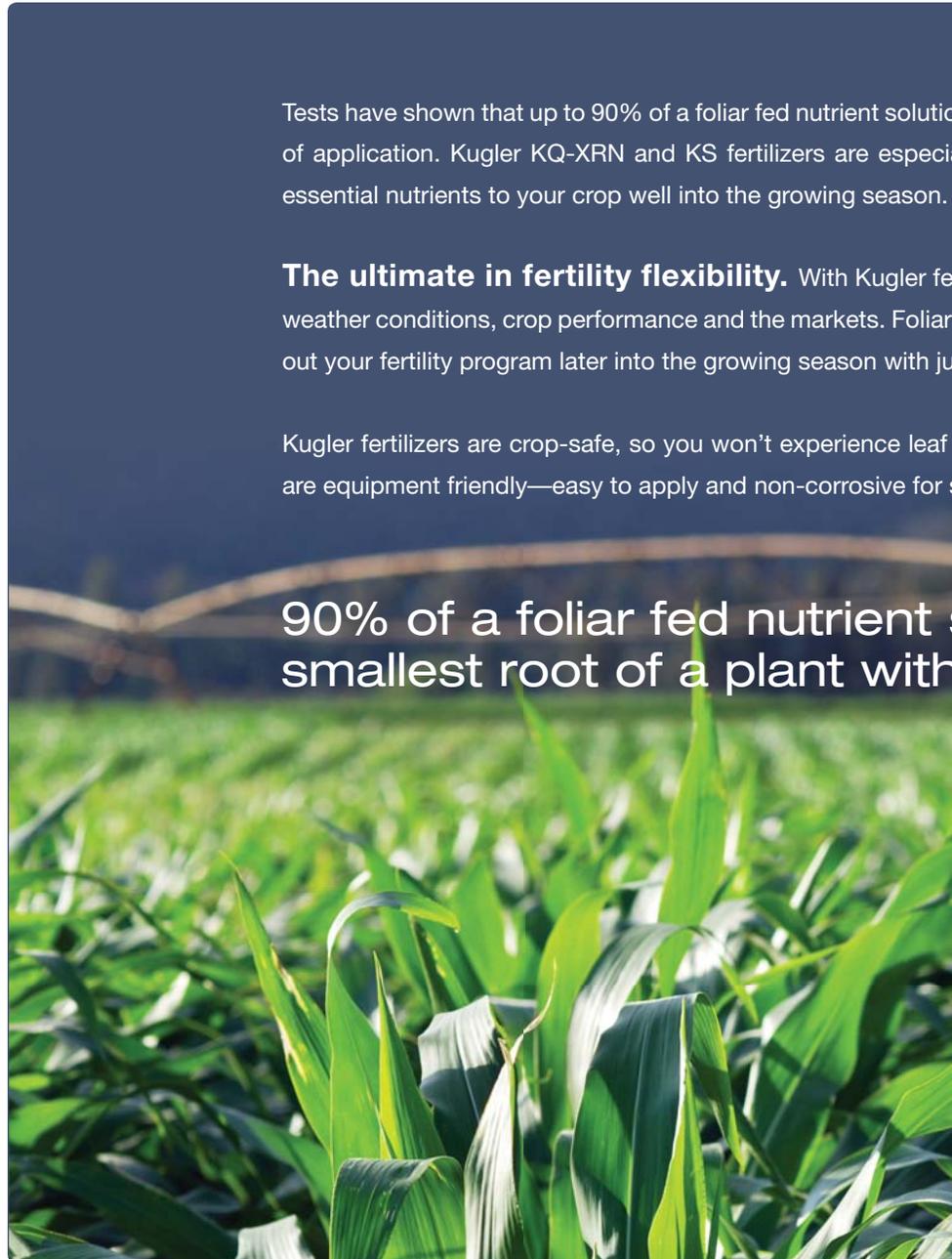
Dean Oliver
Midway Cooperative
Osborne, KS

Tests have shown that up to 90% of a foliar fed nutrient solution is absorbed by the smallest root of a plant within 24 hours of application. Kugler KQ-XRN and KS fertilizers are especially effective for providing essential nutrients to your crop well into the growing season.

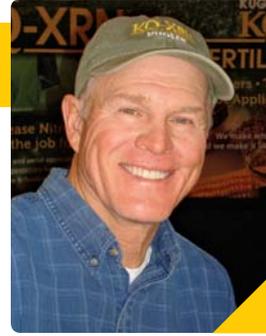
The ultimate in fertility flexibility. With Kugler fertilizers, you can adapt to changing weather conditions, crop performance and the markets. Foliar fertilizers allow you to extend out your fertility program later into the growing season with just a few extra applications.

Kugler fertilizers are crop-safe, so you won’t experience leaf burn or crop damage. They are equipment friendly—easy to apply and non-corrosive for your equipment.

90% of a foliar fed nutrient solution is absorbed by the smallest root of a plant within 24 hours of application.



feeding.

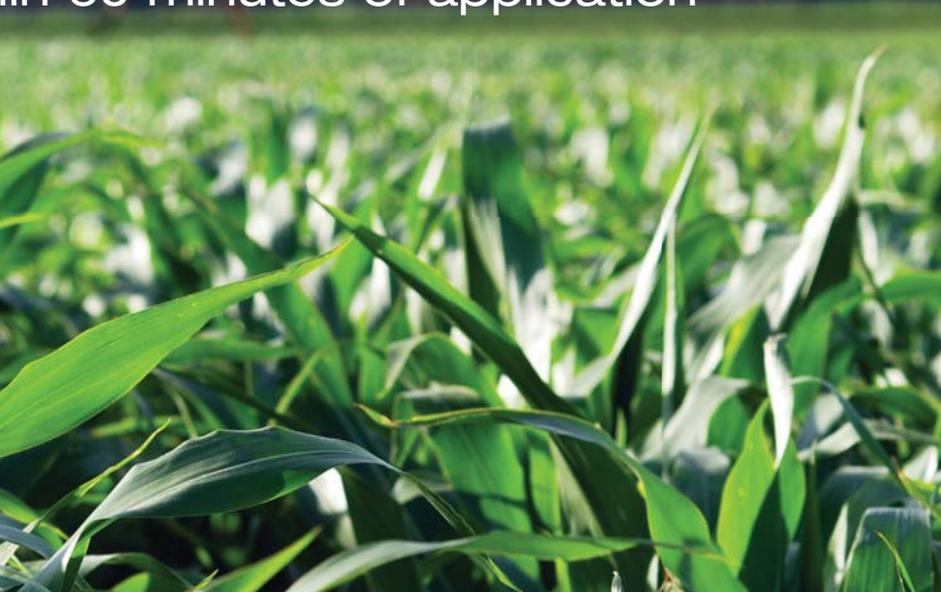


on can be found in the smallest root of a plant within 60 minutes
ally well suited for foliar application—allowing you to provide

ertilizers, you can fine-tune your fertility program in response to
eeding with high-quality Kugler fertilizers allows you to spread
st the right fertilizer at just the right time.

burn or compromise plant performance. And Kugler fertilizers
sprayers, pivots and airplanes.

solution can be found in the
in 60 minutes of application



“Kugler formulations give you an advantage...”

“I have used competitive products that were supposed to be foliar feed products that actually burned my corn up; but I haven’t had that happen with Kugler, and I don’t expect it to. I think all of their products are great products...the way Kugler formulates their products will give you an advantage in that you’re going to meet more of the plant needs to help the plant through stress.”

Rex Waugh
Arapahoe, CO

Kugler Low Salt Starters

Irrigated Sugar Beet Trials by Irrigation Research Foundation

+8.1 tons/ac vs. check
3 gal/ac LS924
applied in-furrow with
1 qt/ac KH2412

Irrigated Corn Trials by Irrigation Research Foundation

+15 bu/ac vs. check
3 gal/ac LS924
applied in-furrow with
1 qt/ac HF2412 + 1 pt/ac MicroMax

Irrigated Corn Trials by Irrigation Research Foundation

+11 bu/ac vs. check
2 gal/ac KS1515
applied foliar

+20 bu/ac vs. check
3 gal/ac KS1515
applied in-furrow with
1 qt/ac KS Micro Max

Season-long plant health starts in the furrow.

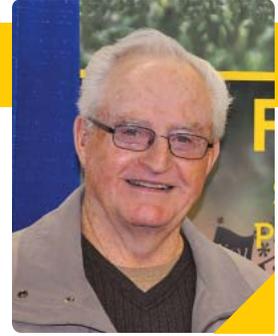
Good results at harvest begin with planting. In-furrow placement of Kugler low salt starters gives your plants a fast start without damaging the seed—promoting strong root development and providing critical nutrients for a healthier plant from the get-go. Kugler quality means that you won't experience plugging and salt-out problems—an important consideration when using smaller orifices at planting. When you add Kugler KS MicroMax with these low salt starters, you get a complete fertility package that gets your crop off to a strong, healthy start that optimizes season-long performance.

LS 924: High Phosphorus Low Salt Starter

The combination of high phosphorus, potassium and nitrogen helps seeds overcome cool soil temperatures that are typical in the early growing season. This seed-safe formulation stimulates early root development and nutrient uptake that increases fertilizer efficiency and season-long plant health.

KS 1515: Low Salt Starter with KQ-XRN

A balanced blend of phosphate, potash and KQ-XRN slow release nitrogen—a perfect choice for giving your crop a great start on root development, plant health and stress resistance. KS 1515 can be applied in-furrow or through foliar application later in the season. The KQ-XRN in the formulation reduces leaching and volatilization, so the N stays put.



Improving season-long plant health with total fertility from Kugler.

It starts when you plant the seed. And it doesn't stop until the grain is in the bin. Managing plant health throughout the growing season from planting through harvest is the key to optimizing today's genetics.

Kugler fertilizers give you the flexibility, quality and product options to respond effectively to what's happening in your field. Low salt starters safely give your seeds the initial nutrients required to develop a strong root system for nutrient uptake all season long. And whether you're topdressing wheat, spraying glyphosate on soybeans or aerial applying on corn, there's a Kugler fertilizer program that matches exactly.

“Great stands—I’m happy with this fertilizer.”

“On our corn, we used three gallons of KS 1515 at planting. We had too much rain in June and you saw a lot of yellow corn in our part of the country. And a lot of guys were unhappy with their yields. But our corn stayed green all year long.

I think I had better corn; our average yield was 172—and 54.5 on beans. Great stands—and I was just happy with this fertilizer and I'm going to keep up with it.”

Gary Belohrad
Leigh, NE



Kugler Micronutrient Packages



“A healthier plant...and more pod development.”

“I just put one gallon of KQ-XRN and one pint of MicroMax. I noticed a healthier plant with better drought tolerance. There was a yield increase of five to six bushels, which at \$12 a bushel is well worth it. I noticed it did stimulate more pod development. It really seemed like after I applied the Kugler fertilizer, I got a healthier plant.”

Dan Nelsen
Moorefield, NE



Changing fertility to optimize today’s genetics.

New genetics are having a dramatic effect on yields, grain quality and the ability of plants to resist threats. At the same time, new genetics are changing the way plants absorb and utilize nutrients—and that demands a new approach to fertility in order to optimize yield potential.

Kugler micronutrient fertilizers give your plants the nutrients they need to do their best—especially when combined with Kugler KQ-XRN, KS 1515, LS 924 and many other Kugler fertilizer grades.

Kugler KS MicroMax

Copper ▲ Iron ▲ Manganese ▲ Zinc ▲ Boron

A powerful package of key micronutrients that provides essentials for photosynthesis, cell wall formation, and enzyme action. Apply in the soil or foliar to maximize crop health at key growth stages. Combine with Kugler low salt starters in-furrow at planting—or with Kugler KQ-XRN throughout the growing season to ensure optimum plant health and performance.

Kugler KF Mn192

Manganese ▲ Kugler KQ-XRN Slow Release Nitrogen

The gene that makes a plant resistant to glyphosates adversely affects the plant’s ability to extract manganese from the soil. Low manganese compromises plant health and yields. KF Mn192 from Kugler combines high quality manganese with KQ-XRN slow release nitrogen—providing essential Mn with a boost of N—and the adhesive quality of KQ-XRN keeps the glyphosate on the weeds longer, improving your kill rate.

Cu Fe



“I’m going for early plant health...”

“The Roundup® beans really need some manganese and that’s what I’m really going for with Kugler MicroMax. I’m trying to get as much early plant health as possible. The healthier you keep those plants, the more they are going to produce.”

Terry Long
Lebanon, KS



Mn Zn B



yellowing corn prior to application

robust green corn one week after application

Kugler KS 2075

Superior potassium and sulfur—with the powerful boost of Kugler KQ-XRN

Kugler KS 2075 is a chloride-free, safe and efficient source of K and S to address specific nutrient needs in your crop. You can apply KS 2075 in the soil, as a foliar spray or injected through an irrigation system. Kugler KS 2075 mixes readily with insecticides and herbicides, allowing you to save time and labor by making just one pass through the field.

A great weather beater Applying Kugler KS 2075 late in the season is a great way to boost nitrogen at mid- and late season growth stages. This is especially important when your crops are waterlogged due to excessive rains—or damaged by wind or hail. Apply it with crop protection chemicals to take advantage of KQ-XRN’s sticking power—and add some Kugler MicroMax to provide a full serving of essential nutrients.

KS 2075 Corn Foliar Results

+15 bu/ac vs. check
2 gal/ac KS 2075 Yuma, CO



"I don't think you can find an extended release nitrogen product that's easier to handle, easier on the equipment. I like to use KQ-XRN on my own fields for the simple fact that I know that it's not going to have any damage; I'm not going to hurt that crop. I'm a firm believer, if you ever hurt the crop, you hurt your yield. So I'm using KQ-XRN as part of my topdress program in the spring as a carrier for my herbicide."

Mason Hansen
Kugler Dealer – Flagler, CO



"Kugler works really well because it's low salt and non-corrosive on the equipment. It's a good quality product and doesn't plug up the nozzles or orifices. If you're not stopping to unplug things, you're getting things done."

Lynn Cooper
Osborne, KS

Kugler quality makes a difference at every step.

Kugler is a family owned, Midwest based fertilizer company that has been helping farmers succeed for decades. The foundation of that success is Kugler's company-wide commitment to the highest quality at every step—from manufacturing to delivery to application.

Because we manage quality with every detail, you don't have messy salt-out and plugging problems that slow you down—even when using small orifices. You don't have to worry about rust or corrosion on your equipment. You are assured that the nutrients you're applying to your crop are the best they can be. And you have our word on it.

Kugler has been on the leading edge of fertilizer science, product development and agronomic insight for many, many years. Revolutionary products such as the original Kugler KQ 555, KQ 342, KQ 353 and now Kugler KQ-XRN are proof that Kugler is on the cutting edge of creating fertility programs that are in step with advances in agriculture. And we're not letting up.

Discover more about how Kugler quality can put your farming operation in step with the rest of your modern farming practices.



1.800.445.9116 ▲ www.KQXRN.com ▲ www.KuglerCompany.com

P.O. Box 1748 ▲ McCook, NE 69001