

Unlocking Fertility Potential: Backed by Science, Built for Your Fields

University research meets real-world farming.



Joey Stasell District Sales Manager:

At Axis Seed Direct, we believe the best fertility strategies are backed by sound science. Dr. Mulvaney, a soil scientist at the University of Illinois, has conducted extensive research that supports the direction we're headed. His findings align closely with our approach and can help explain the value behind our products.

Nitrogen – Making the Most of What's in the Soil

"The bulk of the nitrogen comes from the soil and not applied nitrogen." – Dr. Mulvaney

Our product Excavator helps release tied-up nutrients while breaking down residue that can harbor disease and lock up nitrogen. For farmers running corn-on-corn, this is a game-changer. Independent studies have even shown that residue breakdown products can reduce or eliminate corn-on-corn yield drag.

Phosphorus – Unlocking What's Already There

"6,000 lbs of phosphorus are in the top 6" of an acre of soil."

Roots and microbes naturally produce enzymes that make organic phosphorus available to plants. Our starter and pail products build on this process with added enzyme activity, helping crops access more of what's already in your fields.

Potassium – More Than Just What's on the Surface

"The top 6' of soil has 250,000–500,000 lbs of K in an acre."

Dr. Mulvaney points out that much of the potassium available to plants comes from deeper in the soil—not just what's applied at the surface. By accelerating residue breakdown, we help release potassium naturally and without added salts.

Why This Matters for Your Farm

Fertility programs are a major expense, and farmers are always balancing seed, input costs, and ROI. Our focus is to provide the right products for your geography while also offering financing flexibility and transparent solutions to manage costs.

We encourage you to test this on your own acres. This fall, try strips with 20%, 40%, and 60% of your normal dry program. Seeing the results firsthand builds confidence.

Taking It Further with Precision

We also bring EarthOptics testing to the table. This technology lets the soil itself tell you where fertility dollars will make the biggest difference. Instead of blanket applications, you can target inputs with precision—maximizing yield potential and ROI.



Talk with your local Axis Seed Direct representative today about incorporating Excavator, pail products, or EarthOptics into your fertility program.