



**SOIL**  
**Service, Inc.**  
Custom Approaches to Soil Management

Choosing Soil Service, Inc. for your nutrient needs means you are choosing a complete program. Agronomists are available for consultations, including a complete soil test with micronutrients and recommendations for your individual field.

888-313-2360 | [soilserviceinc.com](http://soilserviceinc.com)

CROP CHOICE® STARTER FERTILIZER | FOLIAR OPP® | 2075-SRN® & MAX72-SRN®  
SOIL BOOST EXTREME | SOIL BOOST PLUS® | SOIL CAL® | LANDOIL® | LANDOIL® EXTREME | ROGUE VT®

# A COMPLETE LINEUP OF LIQUID FERTILIZER SOLUTIONS

Our versatile liquid fertilizer program begins with our own Crop Choice® starter fertilizer, then builds nutrient availability throughout the growing season with either a Foliar Opp® or slow release nitrogen application. We also offer chelated micronutrients and Sugar E-Boost® for specialized crop needs.



## SOIL SERVICE LIQUID FERTILIZER PRODUCTS:

- Feed your crops, not the soil.
- Provide immediately available nutrients in seed-safe, usable ion form.
- Won't salt out or change form over time.
- Remain in an aqueous solution regardless of age.
- Are non-corrosive on equipment.
- Are certified for quality. Each batch is analyzed for quality control before shipment.

### Plant Nutrient Requirements for a 180 Bu./Acre Corn Crop

Nutrient	First 25 days		Second 25 days	
	%	lbs./acre	%	lbs./acre
Nitrogen (N)	8	19	35	84
Phosphate (P <sub>2</sub> O <sub>5</sub> )	4	4	27	27
Potash (K <sub>2</sub> O)	9	22	44	104

*Nutrients taken up by corn in 25-day periods after emergence.*

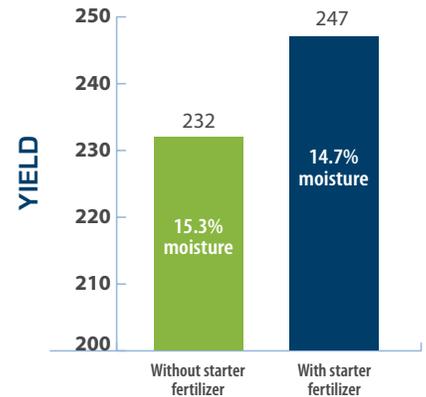
## CROP CHOICE STARTS CROPS OFF STRONG

A crucial part of the soil fertility program is starter fertilizer, especially if you want to capitalize on the benefits of planting earlier in the growing season. When soils are wet and cold, an in-furrow boost ensures seeds have direct access to the nutrients they need before the sixth leaf—the critical growth stage when maximum ear size is determined.

At Soil Service, we recommend our carefully developed Crop Choice starter fertilizer brand of products because it is 100% orthophosphate, so it is 100% available to your crops—unlike the brands sold by many of our competitors. Crop Choice starter fertilizer:

- Is seed-safe for in-furrow placement at our recommended rates.
- Can benefit corn (grasses), soybeans (legumes), and virtually all other crops.
- Allows for a lower application rate than broadcast and 2x2 placement.
- Has a low impurity level, low viscosity, and low salt content.
- Is non-corrosive because of its low salt content and high level of purity.
- Contains potassium, another nutrient that benefits young plants.

Soil Service, Inc. Starter Fertilizer Research  
15 bu./acre average increase



Scan to find our Crop Choice formulations and product data sheets.

Crop Choice is often combined with our micronutrients! Scan to learn more.



## SUCCESSFUL FOLIAR FEEDING INVOLVES:

### Timing

- In soybeans: third to fifth trifoliate stage with possible second application at R3 stage.
- In corn: V4 or V5 stage with possible second application at tasseling.

### Technique

- Small spray droplets are preferred.
- Add one pint SOIL BOOST PLUS® per acre to adjust pH of water and enhance absorption and translocation.
- Add Landoil® as your spreader/sticker to help hold products to the leaf, improving coverage and penetration.
- Minimum spray mix of 5–10 gallons per acre is preferred.

## FOLIAR FEEDING MAINTAINS NUTRIENT BALANCE

Foliar feeding has become more and more popular among producers who want to maximize yields. Because lack of micronutrients like zinc, manganese, sulfur, and boron can negatively impact yield, we recommend an in-crop, in-season application of Foliar Opp® and slow release nitrogen when a tissue test reveals deficiencies.

**FOLIAR OPP**  
Corn

**FOLIAR OPP**  
Beans

Foliar Opp is our tested orthophosphate potassium liquid fertilizer with a trace element package. We developed two versions—Foliar Opp Beans and Foliar Opp Corn—to meet the unique needs of grass and legume crops. Each version contains a specific blend of micronutrients to help plants maintain proper nutrient balance. Our Foliar Opp products efficiently feed both soybeans for increased pod set and corn for improved ear set and size. You can expect an increase in both yield and quality in beans, corn, alfalfa, wheat, pasture, and all other crops.

Foliar Opp application is simple: a one-pass solution with a low application rate of 2–3 GPA. It is non-corrosive on equipment and is safe for Roundup® tank mixing. This product is available in bulk and a convenient 275-gallon mini-bulk tank.

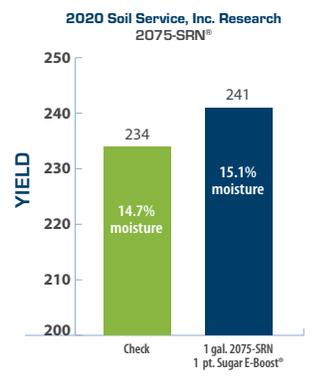
The potassium in Foliar Opp may also increase the effectiveness of starter fertilizer. Ask your Soil Service sales representative for more information.

## SLOW RELEASE NITROGEN

Max72-SRN® is easy to handle, non-corrosive on equipment, and safe to apply with other chemicals and fertilizers, saving you time.

**Max72-SRN**

Max72-SRN is a non-burning solution for use on row crops, turf, vegetables, and fruit. Containing 72% slow release nitrogen—the maximum percentage available on the market—it provides more than three times the slow release nitrogen of many competing products.\* Tests have shown it remains available to crops for up to six weeks in the soil and up to four weeks on the leaves.



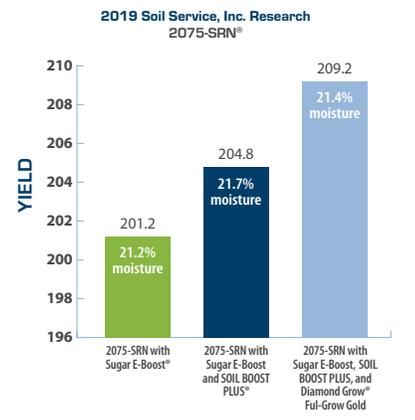
Foliar feeding Max72-SRN minimizes N loss and coats leaves, lasting for weeks while the plant tissue absorbs it. Its staying power makes it an ideal delivery partner for both crop protection chemicals and glyphosate herbicides, keeping these products on the crop or the weed for a longer period of time.

\*At a rate of one gallon per acre.

2075-SRN® offers maximum nitrogen with sulfur and potassium.

**2075-SRN**

If your crops need a nutrient boost during the growing season—especially after heavy rains, wind, or hail—we recommend 2075-SRN. With our high-performing Max72-SRN as a foundation, this clear liquid fertilizer delivers nitrogen, sulfur, and potassium for crops to absorb throughout the growing season. It can be applied as a foliar spray or by an irrigation system, and it mixes well with herbicides and fungicides.



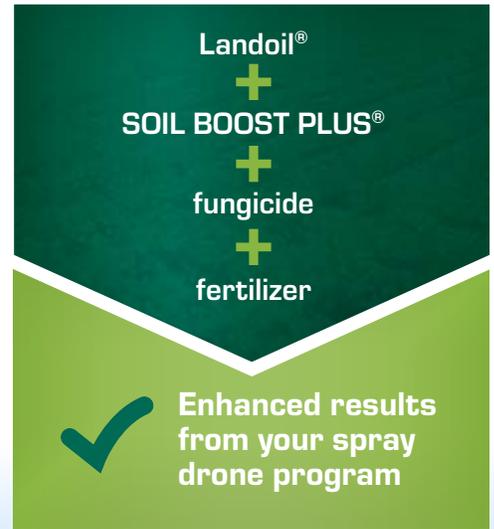
## SPRAY DRONE APPLICATION

When disease or pests threaten your crop late in the season and getting ground equipment into the field isn't an option, Soil Service's spray drone program provides fast, effective coverage. Our agricultural drones deliver fungicides, insecticides, and foliar nutrients in one efficient pass to help protect yields during critical growth stages.

Our drone service is hassle-free. We own and operate our fleet, maintain all pilot licensing, and work under an approved application exemption through a trusted partner. Each program is customized for your fields, with a minimum application rate of 2 GPA for proper coverage.

Our drone mixes include proven products such as:

- Slow-release nitrogen (28% nitrogen / 72% slow release)
- Foliar Opp® orthophosphate potassium fertilizer
- Micronutrients
- Proprietary spray surfactants designed for drone use



## SUGAR E-BOOST®

Sugar E-Boost is a natural liquid that provides a sustained source of energy to plants so growing crops can more efficiently translocate and use nutrients.

In more than three years of testing, it has been proven time and again that adding Sugar E-Boost to any foliar feed boosts the energy and overall health of crops.

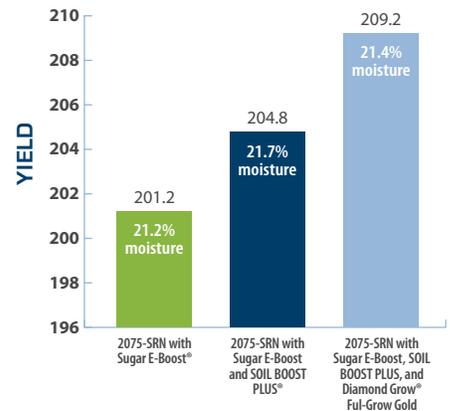
In addition to foliar feeding, Sugar E-Boost can be:

- Applied during planting
- Applied as a side-dress or transplant

Sugar E-Boost doesn't freeze or crystallize, has no chlorides, and has good storage properties. It is safe for use on all crops and is compatible with most herbicides, insecticides, and fungicides.



2019 Soil Service, Inc. Research  
2075-SRN®



## SPRAY SURFACTANTS:

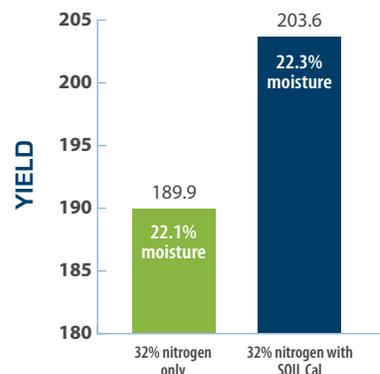
- Reduce the surface tension between the spray droplet or pesticide and the leaf surface when added to fertilizer.
- Allow chemicals to cover more surface, stay there longer, and penetrate better.

## SOIL CAL®

You should be using SOIL Cal if you apply liquid nitrogen in the form of 28-32%. SOIL Cal is an excellent nitrogen stabilizer that readily mixes with nitrogen formulations to keep nitrogen stable in your soil profile.



2019 Soil Service, Inc. Research  
32% nitrogen with SOIL Cal®



## SOIL BOOST EXTREME: TAKE BACK YOUR FIELDS

Farmers facing the toughest weeds are using the toughest dicamba herbicides. SOIL BOOST EXTREME is an adjuvant spray surfactant approved for use with many dicamba-containing herbicides and pesticides.

SOIL BOOST EXTREME is formulated to mix with and increase the effectiveness of herbicides and pesticides in all crops. Its proprietary buffering, penetration, and translocation agents significantly boost penetration and movement in target weeds.

Controlling the pH of spray solutions is critical to achieving maximum absorption. Like SOIL BOOST PLUS®, SOIL BOOST EXTREME acts as a hard water conditioner. It buffers your spray solutions and maintains pH at approved levels, while increasing the effectiveness and activity of glyphosate when calcium, magnesium, and iron are present.



**SOIL BOOST  
EXTREME**

**SOIL BOOST PLUS®**  
SOIL SERVICE

### SOIL BOOST EXTREME:

- Offers a low use rate of 1 qt./100 gal. of water.
- Is approved for mixing with Enlist products, XtendiMax, and Engenia and meets EPA no-AMS requirement.
- Buffers pH of hard water spray solutions to approved level of 5.5.
- Was expertly developed during 3 years of university and on-farm testing.
- Is available in 2.5-gal. jugs or 275-gal. totes.

### SOIL BOOST PLUS®: BETTER THAN AMS

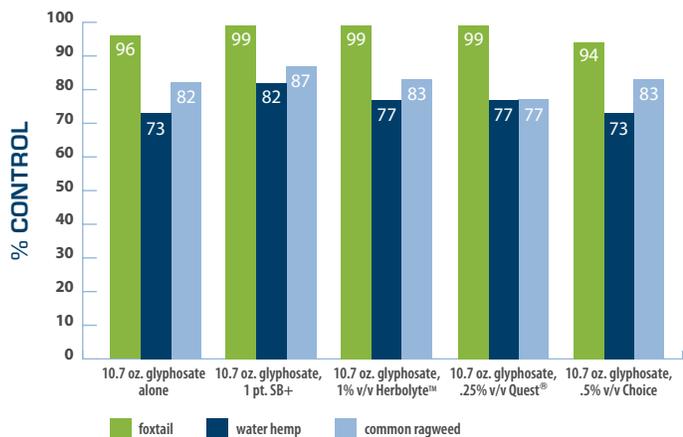
If you are looking for an easy-to-use, cost-effective alternative to ammonium sulfate (AMS), look no further. SOIL BOOST PLUS provides two key benefits in one product. Alternatives may provide one benefit or the other, but few do both.

- Ensures pesticides perform as intended by tying up hard water minerals.
- Lowers the pH of your solution to 5 so it is easily absorbed into plant leaves.

Tap water often contains magnesium, calcium, and iron, which can increase the pH of the water in your solution to over 7. Calcium ties up glyphosate, and an elevated pH inhibits absorption.

SOIL BOOST PLUS contains some AMS and a pH-lowering ester to drop the pH of your water to about 5. Adding just one pint per acre controls the pH, eliminating the need for a pH tester. SOIL BOOST PLUS also contains proprietary buffering, penetration, and translocation agents to significantly boost the penetration and movement of most pesticides in the target plants.

Soil Service, Inc. Research  
Hard H<sub>2</sub>O Study - 250 Grains of Hardness  
Southern Illinois University





## LANDOIL® & LANDOIL® EXTREME

Get the most benefit out of your pesticides with Landoil and Landoil Extreme—premium products used as a replacement for crop oil and non-ionic surfactants. We have done extensive research to ensure our adjuvant system maximizes the effectiveness of your chemicals.

### What are the advantages of Landoil & Landoil Extreme?

- **Support local growers.** Our Landoil products are a soybean-oil-based spray surfactant made from soybeans grown right here in the Midwest.
- **Spread and stick better.** Landoil chemicals don't just cover the surface you are spraying—they also stay there until the chemicals penetrate the plants. Landoil is a tremendous spreader and sticker.
- **Penetrate better.** Landoil's excellent penetration and translocation capabilities mean you'll hit your target and, as with glyphosate, move the chemicals throughout the plant.
- **Limit drift.** Landoil's drift-control properties get more of your pesticide on target, saving you both time and money.
- **Rain fast.** Landoil helps chemicals stick to the leaf, often within 20 minutes, so they are less susceptible to washing off.

Use with SOIL BOOST PLUS® and SOIL BOOST EXTREME.



### When should you choose Landoil Extreme?

Landoil Extreme spreads and sticks like Landoil, but it is especially well-suited for drone applications. It uses extremely safe food-grade surfactants and emulsifiers, is formulated to create uniform droplet sizes, and has improved penetration and translocation agents.

Landoil Extreme has a low use rate of 1 qt./100 gal. of water.

## ROGUE VT®

The Rogue VT is an American-made vertical tillage tool that aerates soil and alleviates deep soil compaction, while creating a smooth seedbed. As it works your soil, the Rogue VT also manages crop residue to help prevent erosion and improve water infiltration—key factors in optimizing soil health and getting the most out of your crops.

In addition to sizing and incorporating residue, the Rogue perfectly conditions soil by fracturing it up to 8" below the surface. This deep fracturing eliminates compaction and allows the next crop to easily absorb moisture and access nutrients. Most crop residue is left near the soil surface, providing crucial erosion control.

Growers can add coulters and/or harrows to the Rogue. Its strong frame flexes up to 15° down and infinitely upward. The Rogue can also be used to aerate pastures and hay ground.

Available in 4 working widths: 16½' - 24' - 31½' - 39'

### Additional features:

- Shorter rollers keep dirt away from critical parts, extending bearing life
- Gang angles and coulter depth settings adjustable without a wrench
- Walking tandem wheels with high-quality tires
- Two-year breakage warranty, INCLUDING the tines



Soil Service, Inc. completes extensive testing with all our products at our warehouse and research farm near Niota, Illinois. We are dedicated to selling and developing an extensive line of soil additives to facilitate improved crop performance for all our customers' unique needs.