



SMARTCORE™ Robotic Soil Sampling

BETTER CORES. BETTER DATA. BETTER APPLICATION.



Multi-Trial 3rd Party Test
Proved ROGO Improvement vs.
Regular Sampling. ROGO Was
3X Closer to True Soil Levels.



ROGO Improved **24%** of
Fertilizer Placement, Moving It From
Over to Under Applied Areas,
On **46%** of the Field.

Easy Grower Agronomic ROI -
0.5% Yield Gain ONCE Covers
ROGO's Added Cost

UNPARALLELED ACCURACY

True Depth™
Measured-from-Ground
and Auto-Controlled
Within 1/8 Inch

Complete Core™
Pat. Pend. Probe & Bucket System
Extracts Entire Core

Auto Point™
Self-Driving Robot
Hits Core Points Within 1 Foot

SYSTEMATIC RELIABILITY

Dependable Turn Times

Prioritization System
Right Fields, Right Time

Notification System
For ASAP Field Work

TOTAL ACCOUNTABILITY

Traceable
Core Quality & Logistics Stats

Error-Proof
Barcode Bag & Shipping System

EASY BUTTON

Onboarding & Support Team

Grower Launch Support
Pre-Made Marketing Materials
& Sales Support

Lab & Systems Integration
No Change to Data Flow

Customer Portal

**PROVIDED TO
GROWERS
THROUGH YOU**

CHANGING INDUSTRY STANDARDS



Manual/ Composite
Sampling



GPS Guided &
Variable Rate



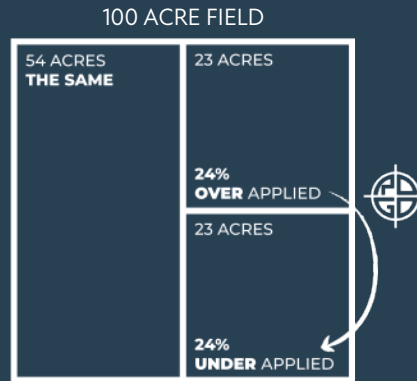
Robotic
Sampling

CALL 765-204-1070 to LEVEL UP YOUR SAMPLING PROGRAM

3RD PARTY TEST

OVERVIEW

- Robots and Regular Sampling (Hand Probes) Sampled a Given Field Many Times.
- Robots Decreased Error by 3x. (From 15% to 5% on Average)
- The Truth At A Given Sample Point Was Defined As The Average of Robot and Regular Results.
- The Error Was How Far From The Truth You Were, If You Only Sampled Once.



FERTILIZER PLACEMENT EFFECTS

- Rogo Improved Fertilizer Placement on 46 Acres. (54 Acres Same)
- Rogo Shifted 24% from 23 Over to 23 Under Applied Acres.
- Protecting Against Shortages and a Yield Hit. (Same Total Fertilizer)

ASSUMPTIONS

- Example Only: ROGO is \$4/Acre Extra For a Grower Than Regular Sampling.
- Fertilizer Recommendations: Removal Only; Average of Agronomy Handbooks.
- Average Crop Revenue of \$900/Acre:

	CORN	SOY
YIELD (bu.)	200	60
PRICE/ bu.	\$5.50	\$11.75

4-Year Fertility Plan (Corn/Soy Rotation):

ITEM	PER ACRE	\$ /TON	4-YEAR \$ /ACRE
Lime - 1x	2.5 Tons	35	\$88
P (MAP) - 4x	130 Lbs.	725	\$189
K (Potash) - 4x	100 Lbs.	620	\$124
TOTAL:			\$400

#1 FERTILIZER APPROACH

TIME FRAME	ROGO ADD	FERTILIZER	YIELD
4-Year/100Ac Field	\$400	\$40,000	\$360,000
4-Year / Ac	\$4	\$400	\$3,600
1-Year / Ac	\$1	\$100	\$900

\$400 Added ROGO Dollars are Telling \$40,000+ of Fertilizer Where to Go. Less Than 1% Optimization Needed.

#2 YIELD APPROACH

BREAKEVEN YIELD RETURN

2% Yield Gain ONCE on 23 Under Applied Acres. (Equal To 0.5% ONCE On All 100 acres)

BREAKEVEN

$$\$900/\text{Ac} \times 23 \text{ Ac} \times 2\% \times 1\text{yr} = \sim \$400$$

LIKELY YIELD RETURN

Some Soils May be Built Up Into Healthy Maintenance Ranges.

But, Under Applying by 24% a Year for 4 Years, Shorts You 1 Whole Year's Worth of Fertilizer.

This Could Reasonably Drop a Major (P, K, Lime) Below the Critical Level and Cause a 5% Yield Hit.

Let's Assume: Only 23 Under Applied Acres are Short, on One Major, Once in the Last Year of Four.

LIKELY

$$\$900/\text{Ac} \times 23 \text{ Ac} \times 5\% \times 1\text{yr} = \sim \$1,000$$

Hardly Any Yield Gain Needed to Make Money: Less Than 0.5%, Once.

CALL 765-204-1070 or GO TO WWW.ROGOAG.COM TO LEARN MORE

