



AgriTec International
CROP NUTRITION PROGRAM

● PREPARED EXCLUSIVELY FOR [REDACTED]

Four fields. All four need calcium. Two are in crisis.

A custom 2026 soil correction program for 150 acres in [REDACTED] — built from four Midwest Labs samples and the math to fix what pelleted lime can't move fast enough. Liquid calcium works in weeks, not seasons.

150

TOTAL ACRES

4

FIELDS SAMPLED

5.2–5.8

PH RANGE

38%

WORST CA BASE SAT

3.0%

NA FLAG (H1)

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Soil data: **Midwest Laboratories**, Omaha NE
Report 26-097-0258 · April 9, 2026



WHAT THE SOIL IS SAYING

Four Fields, One Diagnosis

Four fields, two severity levels, zero fields at target calcium. Every field sits below 68% calcium base saturation, and two are under 45%. Pelleted lime takes 12–18 months to move numbers this far off target. Liquid calcium starts the correction in weeks.

38.4%

WORST CA BASE SAT

Field H1 · crisis level

4 of 4

FIELDS BELOW CA TARGET

38, 45, 55, 56% vs. 68%

5.2

LOWEST PH

Field H1 · severe acidity

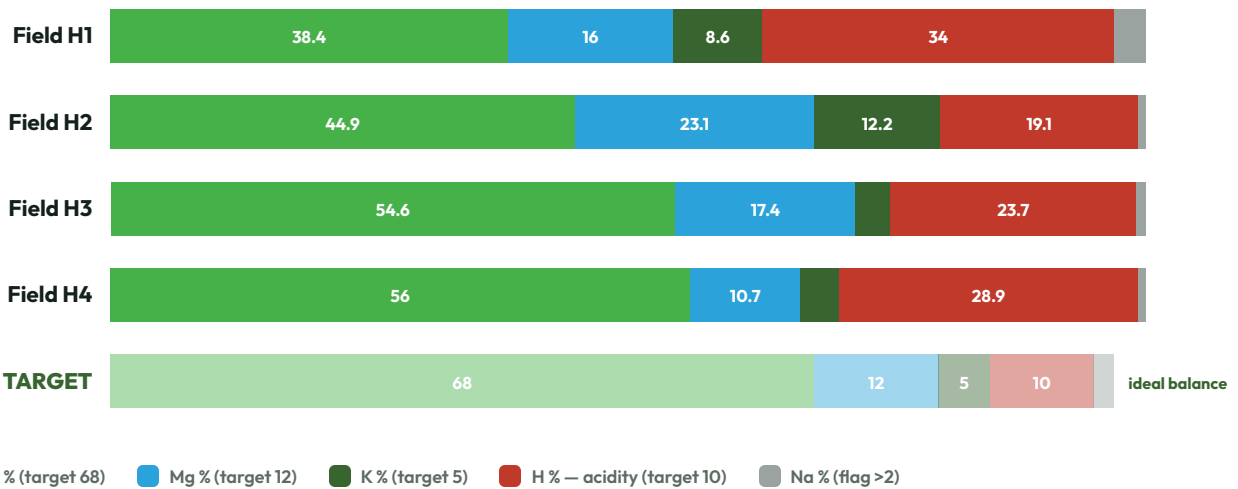
34%

WORST H SATURATION

H1 · active acidity reserve

Base Saturation Comparison

All four fields versus target cation balance (% of exchange capacity). Calcium is short on every field.





ZONE-BY-ZONE BREAKDOWN

Every Field Tells a Different Story

Acreages default to equal splits (37.5 ac each, 150 total). The two crisis fields carry the heaviest correction; H3 and H4 need moderate rates plus exchange-capacity building.

CA CRISIS Lab 56180**Field H1**

pH 5.2 · CEC 7 · OM 3.4% · P1 28 ppm · K 236 ppm

38.4%	16%	8.6%	34%	3%
CA	Mg	K	H	NA

Play: Pro-Cal 5–8 gal/ac (heaviest rates) + NitroMAXX Plus + biology

Worst field in the set. Calcium base saturation at 38.4% sits 30 points below the 68% target, and pH 5.2 is severely acidic — locking out 30–40% of available P and K. Hydrogen at 34% is a large acidity reservoir, and sodium at 3.0% is competing with calcium for exchange sites. Highest ROI potential: fixing the pH alone unlocks nutrients already in the soil.

CA CRISIS Lab 56181**Field H2**

pH 5.8 · CEC 9 · OM 5.5% · P1 42 ppm · K 429 ppm

44.9%	23.1%	12.2%	19.1%	0.7%
CA	Mg	K	H	NA

Play: Pro-Cal 4–6 gal/ac + NitroMAXX Plus + biology

Second crisis field. Calcium at 44.9% is 23 points below target. The story is potassium dominance — K at 429 ppm is very high and crowding calcium off the exchange, with Mg also elevated. The upside: organic matter at 5.5% is the best in the set, so this soil has a strong engine that just needs the cation balance corrected.

CORRECTION Lab 56182**Field H3**

pH 5.6 · CEC 6.8 · OM 3.8% · P1 69 ppm · K 90 ppm

54.6%	17.4%	3.4%	23.7%	0.9%
CA	Mg	K	H	NA

Play: Pro-Cal 3–5 gal/ac + NitroMAXX Plus + biology

Moderate correction zone. Calcium at 54.6% is 13 points below target — not crisis, but it needs work. K at 90 ppm is low, so fixing calcium first lets the soil hold K better when applied. Phosphorus is strong at 69 ppm; boron at 0.4 is low. Responds well to moderate Pro-Cal plus biology to build the lighter exchange capacity.

CORRECTION Lab 56183**Field H4**

pH 5.4 · CEC 5.3 · OM 3.1% · P1 81 ppm · K 76 ppm

56%	10.7%	3.7%	28.9%	0.7%
CA	Mg	K	H	NA

Play: Pro-Cal 3–5 gal/ac + NitroMAXX Plus + AERATE (T3)

Lightest soil in the set. CEC at 5.3 is low — everything leaches faster here. Calcium at 56% is 12 points below target, but hydrogen at 28.9% is high relative to CEC. K is low at 76 ppm; phosphorus very strong at 81 ppm; magnesium is the best-balanced in the set. The play is moderate Pro-Cal plus AERATE (Tier 3) to cut leaching, with biology building organic matter and CEC over time.



RISK PROFILE

Where the Problems Are

Each factor scored 0–10 from the soil data — higher means more severe. Greener cells are healthy; redder cells are where yield is being lost right now.

Field Risk Matrix

0 = no concern, 10 = severe. H1 is the highest-risk field across acidity, calcium and sodium.

FIELD	PH DEFICIT	CA DEFICIT	MG EXCESS	K IMBALANCE	H ACIDITY	NA RISK	LOW CEC
Field H1	9.1	9.9	2.7	3	8.5	9	4.5
Field H2	4.9	7.7	7.4	6	4.8	2.1	1.5
Field H3	6.3	4.5	3.6	1.5	5.9	2.7	4.8
Field H4	7.7	4	0	0.7	7.2	2.1	7.1

ROI Opportunity Map

H1

Highest upside. pH 5.2 is locking out 30–40% of your P and K. Fix the pH, unlock what's already in the soil.

H2

High K (429 ppm) is crowding calcium. Correction frees up the K you already have and rebalances the exchange.

H3

Moderate correction. K is low (90 ppm), so fixing Ca first lets the soil hold K better when you apply it.

H4

Low CEC (5.3) means inputs leach. Ca correction plus biology builds the capacity to hold nutrients.



YOUR PROGRAM OPTIONS — HAY / PASTURE

Pick the Tier That Fits Your Operation

Three tiers, same soil data, different levels of commitment. Tier 1 fixes the calcium. Tier 2 adds biology. Tier 3 goes full system. Every program is zoned by field severity.

TIER 1**Calcium Foundation**

Fix the pH, start the correction

- ✓ **Pro-Cal zoned:** H1 @ 5, H2 @ 4, H3 @ 3, H4 @ 3 gal/ac
- ✓ **NitroMAXX Plus 2 gal/ac** whole-farm for nitrogen efficiency
- ✓ Rates zoned by Ca deficit — H1 and H2 get heavier treatment
- ✓ Applies through any sprayer at 10–20 GPA carrier

TIER 2**Foundation + Biology**

Correct and build the soil engine

- ✓ Everything in Tier 1, plus:
- ✓ **Pro-Cal bumped:** H1 @ 6, H2 @ 5, H3 @ 4, H4 @ 4 gal/ac
- ✓ **NitroMAXX Plus** bumped to 3 gal/ac whole-farm
- ✓ **CarbonCore 0.5 gal/ac** whole-farm (humic / fulvic backbone)
- ✓ **BioAct 0.25 gal/ac** whole-farm (microbial inoculant)

Recommended**TIER 3****Full Soil Health**

Max correction + conditioning + biology

- ✓ Everything in Tier 2, plus:
- ✓ **Pro-Cal bumped:** H1 @ 8, H2 @ 6, H3 @ 5, H4 @ 5 gal/ac
- ✓ **NitroMAXX Plus** bumped to 4 gal/ac
- ✓ **CarbonCore** bumped to 1 gal/ac
- ✓ **BioAct** bumped to 0.5 gal/ac
- ✓ **AERATE 0.25 gal/ac** on H4 (low-CEC conditioning)

Hay / Pasture Program Tiers · 150 acres

TIER	PROGRAM	SCOPE	RELATIVE COST
Tier 1	Calcium Foundation	Correction only	● ● ●
Tier 2 RECOMMENDED	Foundation + Biology	Correction + biology	● ● ●
Tier 3	Full Soil Health	Full system	● ● ●

Hay Yield Math (conservative)

Baseline 2.5 ton/ac on 150 acres. Tier 2 targets +0.6 ton/ac across corrected ground — about **+90 tons of additional hay**. Year one roughly offsets the program on yield alone, and the real payoff compounds: the Year 2 re-test should show calcium base-sat movement and lower correction rates, so Year 1 sets up a cheaper, higher-yield Year 2.

Current product pricing and a full per-acre investment quote available on request.



YOUR PROGRAM OPTIONS — ROW CROP (CORN / BEAN)

Same Soil Data, Built for Row Crop

The calcium correction layer (Pro-Cal) is identical to the hay program. Row crop swaps in a rhizosphere biology and a Tier-3 foliar package, and layers alongside your existing N program — we don't touch your UAN or ATS.

TIER 1
Starter + Correction
In-furrow starter + calcium correction

- ✓ **Pro-Cal zoned:** H1 @ 5, H2 @ 4, H3 @ 3, H4 @ 3 gal/ac (broadcast pre-plant)
- ✓ **NitroMAXX Plus 2 gal/ac** whole-farm (with sidedress N or broadcast)
- ✓ Layers alongside your existing N program

TIER 2
Correction + Biology
Full correction with soil biology build

Recommended

- ✓ Everything in Tier 1, plus:
- ✓ **Pro-Cal bumped:** H1 @ 6, H2 @ 5, H3 @ 4, H4 @ 4 gal/ac
- ✓ **NitroMAXX Plus** bumped to 3 gal/ac
- ✓ **CarbonCore 0.5 gal/ac** whole-farm
- ✓ **RhyzoCatalyst 0.25 gal/ac** whole-farm (rhizosphere bio)

TIER 3
Full System
Max correction + biology + foliar

- ✓ Everything in Tier 2, plus:
- ✓ **Pro-Cal bumped:** H1 @ 8, H2 @ 6, H3 @ 5, H4 @ 5 gal/ac
- ✓ **NitroMAXX Plus** bumped to 4 gal/ac
- ✓ **CarbonCore** bumped to 1 gal/ac · **RhyzoCatalyst** to 0.5 gal/ac
- ✓ **KAc 1 gal/ac foliar** at V6/R1 on H3/H4 (low-K)
- ✓ **PyroLift 0.5 gal/ac** foliar bio-stimulant

Row Crop Program Tiers · 150 acres

TIER	PROGRAM	SCOPE	RELATIVE COST
Tier 1	Starter + Correction	Correction only	● ● ●
Tier 2 RECOMMENDED	Correction + Biology	Correction + biology	● ● ●
Tier 3	Full System	Full system + foliar	● ● ●

Row Crop Yield Math (conservative)

Corn baseline ~170 bu/ac. Tier 2 targets +12 bu/ac from pH correction and N efficiency on 150 acres — about **+1,800 bushels**. At pH 5.2 you're losing 8–15 bu/ac to nutrient lockout alone, so fixing the pH is the cheapest yield you'll find — and the correction compounds into Year 2.

Current product pricing and a full per-acre investment quote available on request.



PROGRAM MIX

Tier 2 — Where the Effort Goes

The recommended Tier 2 program broken out by product share, at the default 150-acre split. Pro-Cal carries the correction; the rest builds efficiency and biology.





SEASON EXECUTION

Three Passes. One Season.

Fix the calcium first, layer nitrogen second, add biology third. Your existing dry program stays in place unless you decide to replace it.

1

Pro-Cal + NitroMAXX Plus**AS SOON AS POSSIBLE**

Pro-Cal zoned on all four fields: H1 gets the heaviest rate (Ca 38.4% with Na competition at 3.0%). H2 gets heavy treatment (Ca 44.9% with K crowding at 429 ppm). H3 and H4 get moderate rates. **NitroMAXX Plus whole-farm** gets nitrogen efficiency working from day one — tank-mix with Pro-Cal where both apply.

2

Biology Pass (Tier 2+)**3–4 WEEKS AFTER PASS 1**

All four fields: BioAct + CarbonCore tank-mix (hay) or RhyzoCatalyst + CarbonCore (row crop). On H4, add AERATE to this pass (Tier 3). This is the long-term soil-health build — Year 1 establishes the microbial populations; Year 2 is where you start reducing dependence on dry inputs.

3

Measure and Plan Year 2**LATE FALL 2026**

Re-sample all four fields through Midwest Labs. Track Ca base-sat movement and pH change. On hay ground, track tonnage per cutting; on row crop, compare yield-monitor data field by field. **H1 is the proof-of-concept:** if Ca moves from 38 toward 50–55%, the correction is working — and improved P availability on the same samples confirms the pH unlock.

NEXT STEPS

Lock This Down

Confirm Field Acreages

This program defaults to 37.5 acres per field (150 total from our records). If fields run larger or smaller, real sizes lock in the gallons and exact pricing.

Hay or Row Crop?

The lead says hay/pasture, but both programs are built. Running a split operation? We can mix and match by field — the Pro-Cal correction layer is the same either way.

H1 Sodium History

Field H1 has 3.0% Na saturation — the only field above 1%. Irrigation history, road salt, or a high-sodium well? The source helps decide if we address sodium alongside the calcium.

Application Setup

Pull-type sprayer, ATV boom, or hired applicator? All products run through standard spray equipment at 10–20 GPA carrier. Your setup confirms tank-mix compatibility.

READY TO START THE CORRECTION?

Contact your AgriTec rep to confirm acreages and book Pass 1.