

EXECUTIVE COMMITTEE

REPORT

Plantos Verde® Trial Results

Prepared by: Agrimedic Global

Date: 29 April 2026

Client: International Grower - Eswatini

Laboratory: RES Corporation Agriculture Laboratory, Mhlume



FIELD-PROVEN TECHNOLOGY

INDEPENDENTLY VERIFIED

COMMERCIALY VIABLE



EXECUTIVE SUMMARY

The Plantos Verde® demonstration trial at Eswatini has delivered clear, independently verified evidence of agronomic and commercial benefit.

Trial period: June 2025 – April 2026 | Application: Drone | Scale: 10 Ha treated vs 10 Ha control

+10.8%

YIELD INCREASE

MT / Ha improvement

+1.5%

SUCROSE UPLIFT

Lab-verified quality gain

+1.7%

ERC IMPROVEMENT

Estimated Recoverable Crystal

+1.9%

BRIX INCREASE

Sugar concentration uplift

+12.5%

RECOVERABLE SUGAR

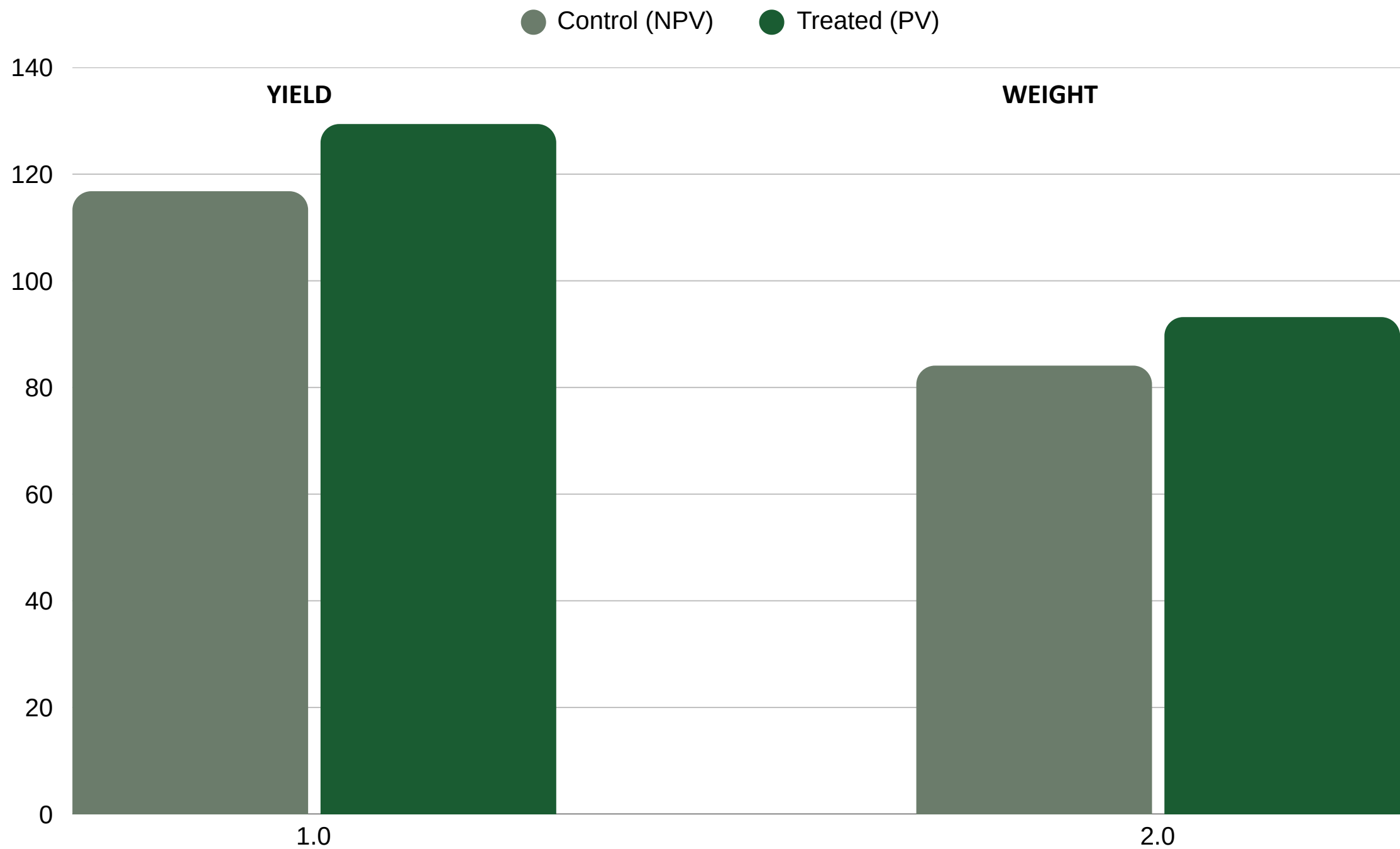
Trial design: 8 test areas — 4 × NPV (control) | 4 × PV (treated), 10 m marked plots each | Measurement: 7 April 2026 | Harvest: 12 April 2026
| Ref: 2026-MHL-400-JR-2026-04-09

RES Corporation Agriculture Laboratory, Mhlume, Eswatini | Report 2026-MHL-400 | Tested 8 April 2026

The figure consists of three bar charts comparing the performance of PV Treated (Plantos Verde®) and NPV Control (Untreated) across three metrics: Sucrose, Brix, and ERC. The PV Treated bars are dark green, and the NPV Control bars are mustard yellow. Each chart includes a legend at the top and a data label at the bottom indicating the percentage improvement for the PV Treated group.

Metric	PV Treated (Plantos Verde®)	NPV Control (Untreated)	Improvement (PV vs NPV)
Sucrose	~19.5	~18.0	+1.5%
Brix	~15.5	~14.5	+1.9%
ERC	~12.0	~10.5	+1.7%

YIELD & WEIGHT PERFORMANCE



116.8 → 129.4	+10.8%
MT/Ha Yield	
840.7 → 932.0	+91.3 kg
Cane Wt (kg / 10m)	
~13.5 → ~13.7%	+1.5%
Sucrose %	
~11.95 → ~12.15%	+1.7%
ERC %	

Spray Schedule: Spray 1: 16 Jun 2025 Spray 2: 8 Jul 2025 Spray 3: 28 Jul 2025 Spray 4: 18 Aug 2025

Application Method: Drone | Field Size: 10 Ha NPV (control) : 10 Ha PV (treated) | Location: Ubombo, Eswatini

FINANCIAL PROJECTIONS — SCALE-UP ANALYSIS

Based on 10.8% yield improvement and 1.5% sucrose uplift. Product + drone application costs included at R 387/Ha

Scale (Ha)	% of Total Ha	Additional Revenue	Plantos Verde Cost	Drone Application Cost	Total Plantos Verde & Application Cost	Additional Nett Revenue
1) 10 (Trial)	—	R113,417		R12,000		R100,909
2) 3,492	30%	R39,605,218	R8,255,088	R5,405,616	R13,660,704	R25,944,514
3) 5,820	50%	R66,008,697	R13,758,480	R9,009,360	R22,767,840	R43,240,856
4) 11,640	100%	R132,017,394	R27,516,960	R18,018,720	R45,535,680	R86,481,714

R86.5M

100% DEPLOYMENT

11,640 Ha potential

R 26M+

30% DEPLOYMENT

3,492 Ha net uplift

3,492 Ha net uplift

★ ROI Breakeven on Yield Upliftment = 2.78%

ROI% = 189%

Sugar MT Increase = 12.5%

BIOLOGICAL EFFECTS NOTED



Early Growth Acceleration

- Measurable canopy difference
- Faster tillering and establishment post-emergence



Superior Structural Development

- Taller cane with wider stems
- Improved cross-section and stalk density
- Increased lignification and structural strength



Brix & Sucrose Trajectory

- Consistent improvement across sucrose and Brix metrics
- Higher ERC translating to better mill recovery
- More uniform ripening and earlier harvest readiness



Soil–Plant Interaction

- Improved root zone activity
- Activated beneficial soil microbial communities
- Enhanced nutrient uptake efficiency



Eldana & Aphid Resilience

- Exhibit stronger resistance to yellow aphid
- Improved resilience against Eldana borer pressure
- Reduced agrochemical intervention required



Ratoon Strength

- Improved cane vigour
- Faster stool regrowth and canopy re-establishment
- Stronger stool structure into subsequent crop

WHY PLANTOS VERDE® WORKS

PLANT BIOLOGICAL
ACTIVATION TECHNOLOGY

 Plantos Verde® operates INSIDE the plant — activating biological systems that are genetically identical in every crop on Earth.

 ATP & Cellular Energy METABOLIC ENGINE MECHANISM Upregulates cellular energy (ATP) production — the fuel that drives every growth and defence process in the plant" FIELD EFFECT More energy for growth, nutrient transport & stress response	 Root System Architecture ROOT ACTIVATION MECHANISM Triggers lateral root initiation & root hair density via internal signalling FIELD EFFECT Greater soil contact, water absorption & rhizosphere exploration	 Membrane Transport & NUE NUE UPLIFT MECHANISM Activates H⁺-ATPase, nitrate & phosphate symporters FIELD EFFECT 25–50% higher nutrient uptake efficiency — less fertiliser required	 Photosynthetic Efficiency PHOTOSYNTHESIS MECHANISM Increases chlorophyll density, Rubisco activity & electron transport rate FIELD EFFECT Greater carbon fixation per unit of light — directly more biomass
 Stress Defence Enzymes STRESS RESILIENCE MECHANISM Upregulates SOD, CAT & POD antioxidants — stabilises PSII membrane FIELD EFFECT Drought, heat, frost (–7°C) & salinity tolerance — faster recovery	 Hormonal Balance GROWTH SIGNALS MECHANISM Optimises auxin–cytokinin–gibberellin signalling cascade FIELD EFFECT Accelerated tillering, canopy closure & ratoon regrowth	 Soil–Microbe Activation SOIL BIOLOGY MECHANISM CaO & MgO at applied rates benefit soil aggregation & microbial activity FIELD EFFECT Improved humus formation, nutrient cycling & long-term ratoon vigour	 Universal & Soil-Independent GLOBALLY CONSISTENT MECHANISM Acts within the plant — bypasses soil pH, OM, CEC, moisture & climate FIELD EFFECT Identical results across all soil types, climates & crop species

SOIL-INDEPENDENT — No dependency on pH, OM, CEC, moisture or temperature

CROP-UNIVERSAL — Biological pathways conserved in every crop species on Earth

GLOBALLY CONSISTENT — Same measurable result from Africa to Brazil to Philippines

FIELD-PROVEN.

INDEPENDENTLY VERIFIED.

COMMERCIALLY COMPELLING.

The Plantos Verde® trial delivers unambiguous results: a 10.8% yield improvement, 1.5% sucrose uplift, and the potential to generate R 84.5 million in additional annual gross revenue at full deployment.

Please email us at info@agrimedic-global.com or visit:
www.agrimedic-global.com
www.linkedin.com/company/agrimedic



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YIELD

+1.5%
SUCROSE

R 86.5M
REVENUE POTENTIAL