GrowMás Potato Demonstration Trial – Chiriquí Highlands, Panama (2024)

Location: Cerro Punta, Tierras Altas, Chiriquí | Producer: Iván Beros | Crop: Potato (Granola)

Plot Size: 4,000 m² | Trial Period: July – October 2024 | Lead Agronomist: Ing. Federico Selles

Overview

Building on successful 2023 results in banana and coffee, GrowMás was evaluated in a highland potato system. Applications followed crop stages, and the demonstration plot received the same agronomic management as the control, highlighting the contribution of GrowMás to crop performance.

Protocol & Timeline

Sowing	First Application	Second Application	Third Application
July 4, 2024	July 20 (16 days after sowing)	Aug 8 (19 days after 1st)	Aug 21 (13 days after 2nd)

Soil & Agronomic Practices

Soil analysis (University of Panama) characterized a sandy-loam soil (pH 5.8), rich in organic matter, high in phosphorus, and medium in potassium—well-suited for potatoes. The producer applied hydrogen peroxide for soil oxygenation and incorporated mycorrhizae to improve nutrient uptake and resilience.

Field Vigor & Canopy

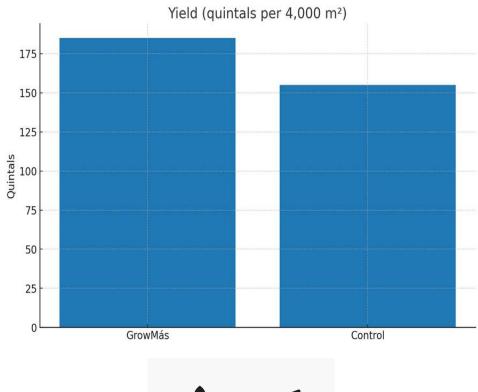
Through August, the GrowMás plot showed visibly greater greenness and denser foliage than the control under identical fertilization. This translated into a stronger, more uniform stand ahead of harvest.

Pest and Disease Management

Seasonal challenges were managed effectively in both plots. Leaf miner fly was controlled with Abamectin, and high-humidity late blight pressure was addressed with Metalaxyl + Mancozeb. The GrowMás plot maintained excellent leaf quality throughout.

Yield Results

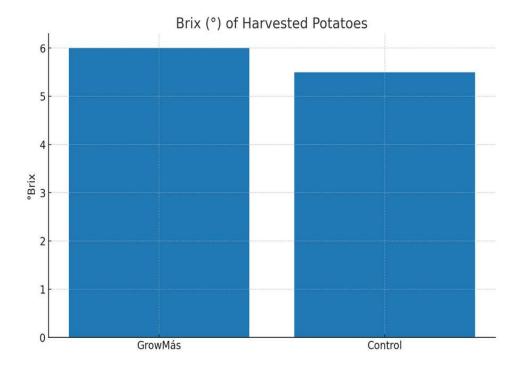
The GrowMás plot delivered a 19% yield advantage over the control (+30 qq per 4,000 m²).





Quality & Laboratory Findings

Metric	Control	GrowMás	Highlight
°Brix (sugar)	5.50	6.00	+0.50° (≈9% increase)
Potassium (K, %)	0.15	0.23	Higher K in GrowMás
Calcium (Ca, %)	0.09	0.12	Higher Ca in GrowMás



Laboratory report excerpt (University of Panama):



Summary

The Chiriquí Highlands demonstration confirms GrowMás as a valuable tool for potato production—driving higher yields, vigorous plant growth, and measurable gains in key quality metrics (°Brix, K, Ca). The trial maintained strong agronomic performance under standard integrated pest and disease management.