



JSH international™
From the Earth... for the Earth®

Field Studies

Nature's Wonder® APEX-10™

***AN ECONOMIC DRIVER &
JOB CREATOR***

**Nature's
Wonder®**



www.NaturesWonder.com

IN-FIELD RESULTS

The Results Speak For Themselves!



- Testing was completed in multiple countries under different soil and climate conditions
- Many tests done for comparison with & without APEX-10
- Various crops were used and all showed outstanding results
- Formal testing was completed on three continents to include- USA, Togo, Nigeria, Kenya, Ghana, Philippines, China, Japan & Armenia. APEX-10 was a great success!

www.NaturesWonder.com

IN-FIELD RESULTS

Togo Institute of Agronomic Research (ITRA)



ITRA, the prestigious research institution in Togo, conducted a ground breaking study aimed at testing the effectiveness of APEX-10 on the agronomic performance and yield of maize in Togo.

- *The use of APEX-10 made it possible to reduce the dose of NPK mineral fertilizer by half to obtain the same yields as when the latter is applied in full dose.*
- The application of APEX-10 made it possible to increase grain maize yield by 36% compared to the control group without fertilization.
- From the results, It was concluded that both on vegetative growth parameters and on yield, APEX-10 can be recommended in cropping systems no matter what level of NPK is used.

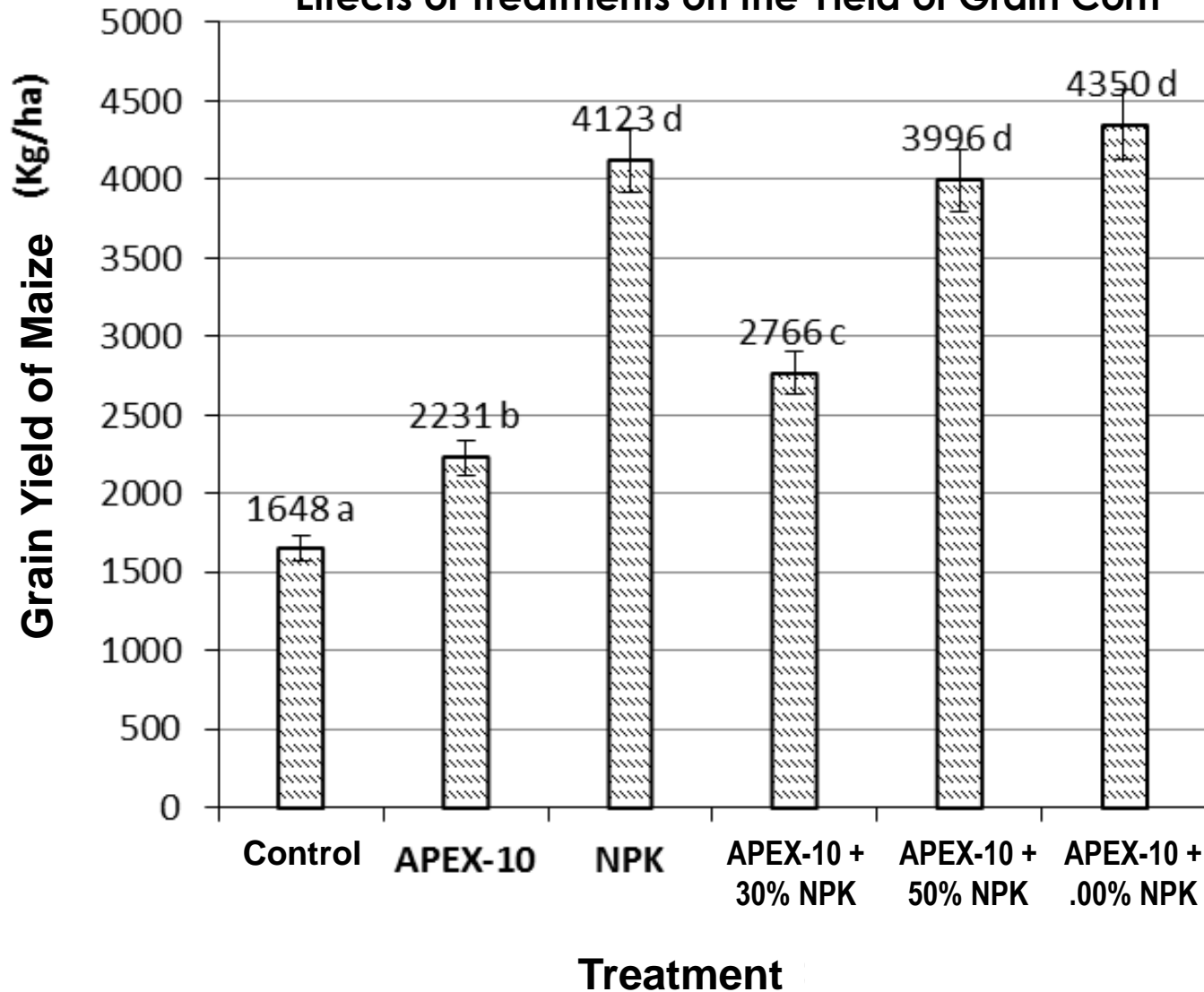


IN-FIELD RESULTS

Togo Institute of Agronomic Research (ITRA)



Effects of Treatments on the Yield of Grain Corn



- APEX-10 with 50% fertilizer statistically has the same yield as 100% fertilizer only.
- It is concluded that the application of APEX-10 on the crops makes it possible to reduce the recommended doses of NPK mineral fertilizer and obtain the best yields- no matter what fertilizer amount is available to the farmer.



IN-FIELD RESULTS

TechnoServe



TechnoServe, a leading global agriculture focused NGO, carried out field trials in **14 locations across Nigeria** starting in June 2019 to determine the **effects of APEX-10 on performance and yield** using tomatoes. Harvest was conducted between October & December 2019.

- Only **70% of the normal fertilizer** requirement was used in the treatment plots
- Based on outcomes from both the treatment and control plots, it is concluded that **APEX-10 contributed significantly to the increase in the development, performance and yield of tomatoes** (*See ROI Analysis on the next slide*)
- The treatment plots also exhibited **increased plant vigor as well as lesser incidences of disease attack**

IN-FIELD RESULTS

TechnoServe



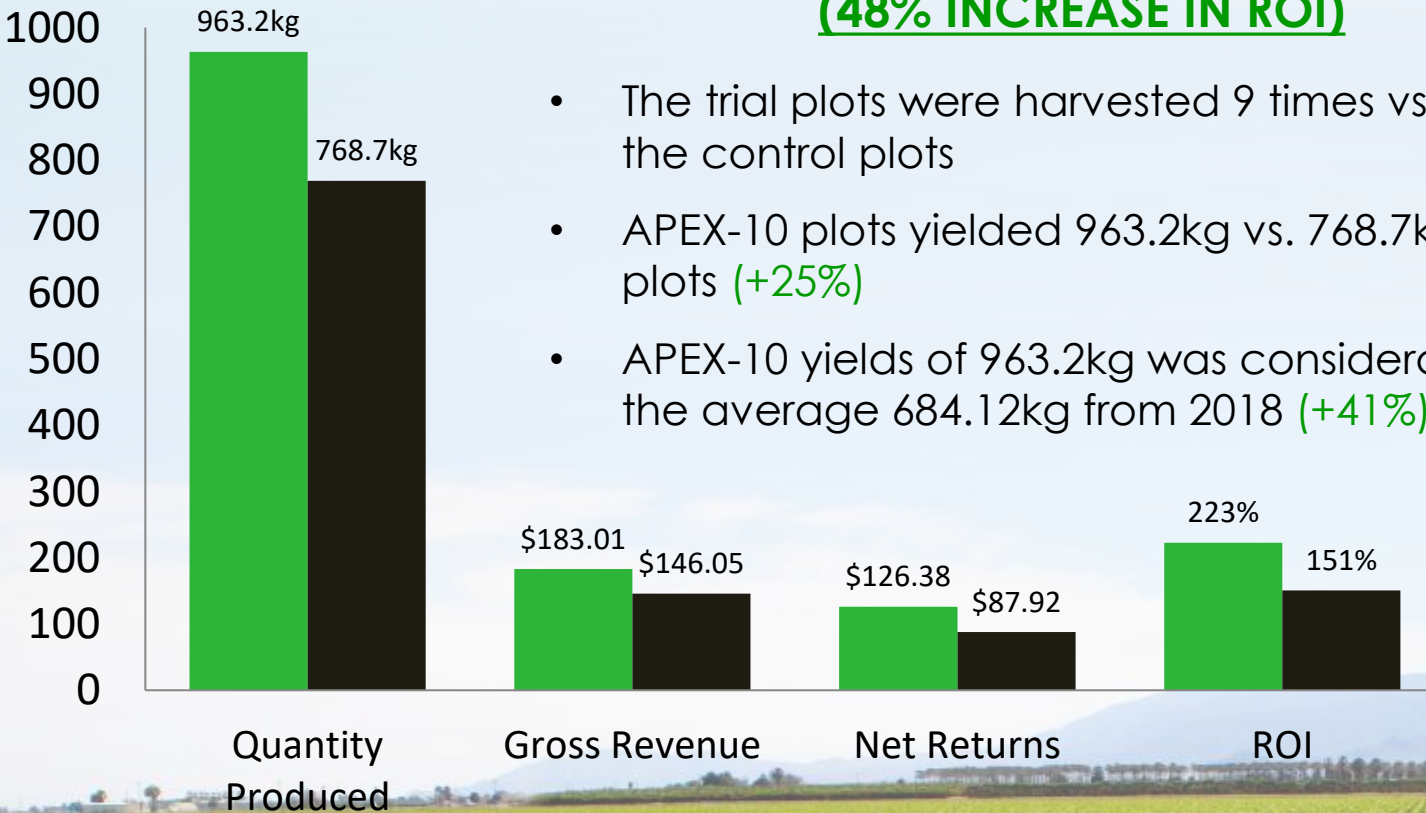
TECHNOSERVE
BUSINESS SOLUTIONS TO POVERTY



APEX-10 treatment plots had an ROI of \$223 USD for every \$100 US invested vs. an ROI of \$151 US for every \$100 USD invested for the control plots!!

(48% INCREASE IN ROI)

- The trial plots were harvested 9 times vs. 8 harvests from the control plots
- APEX-10 plots yielded 963.2kg vs. 768.7kg from the control plots (+25%)
- APEX-10 yields of 963.2kg was considerably higher than the average 684.12kg from 2018 (+41%)



■ APEX-10 ■ Control

TEST WITH MORE DETAILS IS AVAILABLE UPON REQUEST

IN-FIELD RESULTS

TechnoServe



TECHNOSERVE

BUSINESS SOLUTIONS TO POVERTY



Treatment Plot

Control Plot

3 weeks



9 weeks



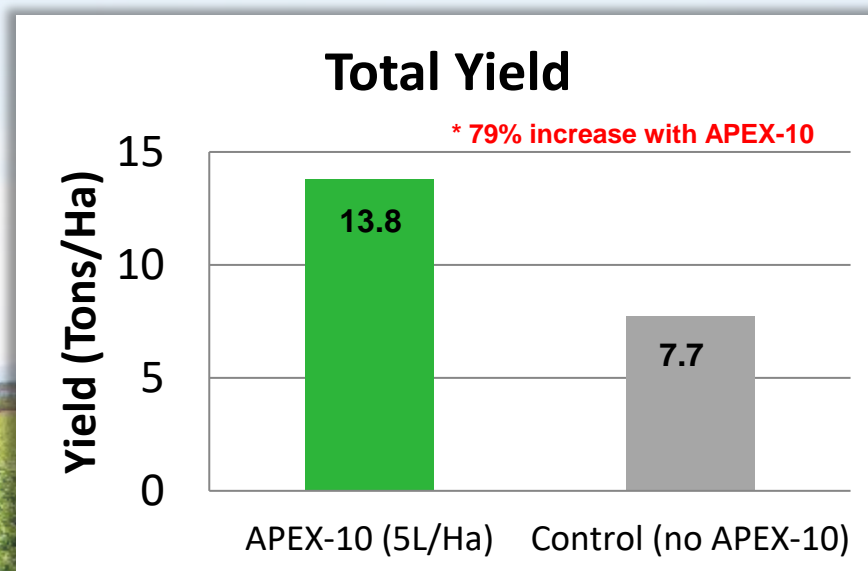
IN-FIELD RESULTS

Kenya Agricultural Research Institute testing of French Beans



	APEX-10 HUMIC ACIDS	CONTROL
TREATMENT:	5.0L/ha+ 100% Standard practice	100% Standard practice without APEX-10
# OF HARVESTS:	6	5
YIELD PER HECTARE (KG):	13,789	7,726

*** The difference between the APEX-10 yield and the control yield is an increase of 6,063 Kg**



USA UNIVERSITY STUDIES



- Rutgers University
 - Effects of APEX-10™ on Fertilizer Efficiency
 - Effects of APEX-10™ on Reducing Irrigation Requirements
 - APEX-10™ on Performance Under Reduced Fertility & Irrigation Regimes
- Virginia Tech
 - Enhancing Crop Productivity During Drought Conditions
 - Evaluating Root Development & Root Strength with APEX-10™ and Leonardite
- Soil Foodweb
 - Increasing Biomass & Nutrient Retention in Soil



Find these studies at NaturesWonder.com
under Research

IN-FIELD RESULTS

Kenya tested & doubled the yield on rice. Japan (photos) achieved substantial root growth on pre-plant rice.



Rice seedlings at 3 weeks, with & without Nature's Wonder®

Excellent head-start on root development, & will also help with transplant stress & re-establishment



未散布の苗
(種まき後4週間)

散布した苗
(種まき後3週間)

NOTE: Kenyan National Irrigation Board tested APEX-10™ and doubled the yield on rice

IN-FIELD RESULTS

Ghana testing on Cocoa



“APEX-10 for cocoa and all crops HAS NO COMPETITION and it’s a PERFECT BLESSING to all farmers even beyond cocoa.”

- Mr. Charles Gyamfi

*Named the Best African Cocoa farmer 2019
Named the Best Ghana National farmer 2019*

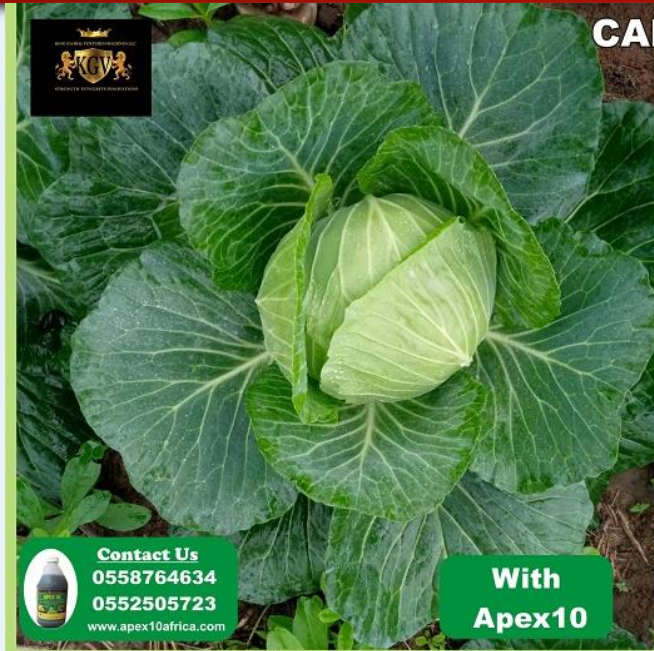


IN-FIELD RESULTS

Ghana testing on Cabbage & Tomatoes



“After being a researcher of crops, plants and soil for 30 years- I have yet to see any soil replenisher and/or any fertilizer booster for all crops & plants that comes close to the efficiency of APEX-10. It is truly a game changer.”



CABBAGE



TOMATOES



- Dr. Gabriel Quansah: Ghana Crops, Plants and Soil Research Institute of Kumasi Ghana



IN-FIELD RESULTS

Philippines testing on corn



“The product showed high potential as soil conditioner and improved yield of grain corn when applied to the soil at planting and at 25 days after planting alone and in combination with recommended rates and half of the recommended rates of granular fertilizers. This combination could increase net income by 9% to 29%.”



***- Dr. Gil Magsino
Study Leader and FPA-Accredited Researcher
Los Banos Philippines***



IN-FIELD RESULTS

China rice and tobacco testing



- Increased crop production on all crops tested
- Increased rice production by as much as 50%
- Enhanced fertilizer efficiency
- Enhanced the retention of water in soil
- Reduced the compaction of hardened clay soils
- Improved crop nutrient adsorption

GROWING TOBACCO IN HUNAN, CHINA

Treated Tobacco



Untreated Tobacco



IN-FIELD RESULTS

Japanese testing of Daikon radish



Daikon at 17 days with & without APEX-10™



*** Greater size & yield
with APEX-10™**



IN-FIELD RESULTS

Japanese testing of potatoes



* More robust crops & significantly greater yield with APEX-10™



Potato progress this year at the same farm

Greatly increased potato yields after 3 months



IN-FIELD RESULTS

Armenia testing on wheat/corn/tomatoes/peppers



ACADEMY OF AGRICULTURE ARMENIA *Study Conducted on Nutrient Deficient Soils*

- Increased wheat productivity 31% and wheat root growth by 9%
- Improved the total green net weight of corn by 49% and root weight by 16%
- Increased tomato productivity by 13%
- Increased green pepper productivity by 12%





CONTACT

service@natureswonder.com

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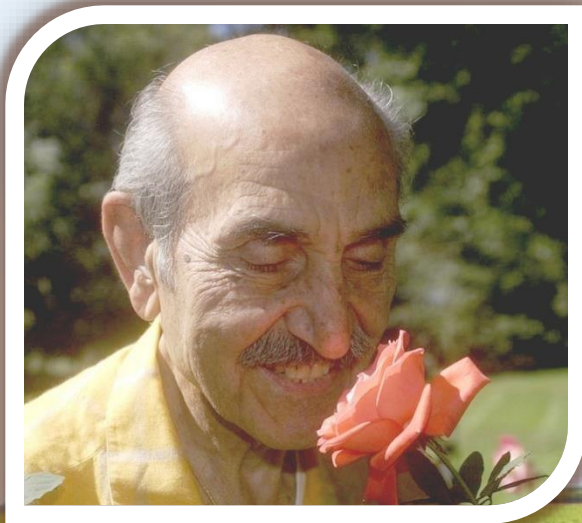




THANK YOU!

“I’ve had an incredible opportunity to lead a great life in America and to give back to the community from which I’ve received many rewards.”

~ Jirair Hovnanian, Founder



Left: **Stephan Hovnanian (Principal)**
Middle: **Kevin Mulvihill (CEO)**
Right: **Peter Hovnanian (Principal)**