



**ILLUSTRATIVE SOIL RESTORATION PROGRAM  
Mature Cacao - Nigeria - USD**

Client Customized Inputs Highlighted

<b>Crop</b>	<b>Mature Cacao</b>
<b>Country/Region</b>	<b>Nigeria</b>
<b>Client</b>	<b>Silvex</b>
<b>Currency</b>	<b>USD</b>

Primary Crop Inputs	Soil Test Results	Est. Savings.
N (lb/A)		27%
P (lb/A)	59	15%
K (lb/A)	49	29%
SOC (lb/A)		
Nitrogen savings region	Rest of World	

Liquid or Granular	<b>Granular</b>
Soil Carbon restoration	<b>Yes</b>

Fertiliser Prices (in USD)	3/15/2022		
Pricing Model =	AHDB	Nutrient	Nutrient Cost
AN Domestic (34.5% N)		N	
AN Imported (34.5% N)		N	
Granular Urea (46% N)		N	2,362
UAN (30% N)		N	
Muriate of Potash		K <sub>2</sub> O	1,050
DAP		N + P <sub>2</sub> O <sub>5</sub>	
SSP		P <sub>2</sub> O <sub>5</sub> + Ca + S	1,608

Water Usage	Current Usage	Est. Savings.
Usage (acre-inches)	33.2	20%
Cost per acre-inch (USD)	0.00	

Summary of Benefits	Low	High
Status Quo Revenue	4,246	5,307
Status Quo Costs	936	936
<b>Status Quo Gross Profit Margin</b>	<b>3,310</b>	<b>4,371</b>

Revenue Increase	USD per Ha	637	1,327
NPK Nutrient Savings	USD per Ha	237	237
Water Use Savings	USD per Ha	0	0
KO Soil Inputs	USD per Ha	-120	-120
<b>Net Cost Savings</b>	<b>USD per Ha</b>	<b>117</b>	<b>117</b>

Net Increase in Profits	USD per Ha	753	1,443
% Increase in Profits		22.8%	33.0%

Nutrient Savings		Low	High
<b>Nitrogen (N)</b>	lbs/acre	257	257
	kg/Ha	288	288
	USD per kg	2.36	2.36
	USD per Ha	680	680
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>184</b>	<b>184</b>

<b>Phosphorus (P<sub>2</sub>O<sub>5</sub>)</b>	lbs/acre	86	86
	kg/Ha	96	96
	USD per kg	1.61	1.61
	USD per Ha	154	154
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>24</b>	<b>24</b>

<b>Potassium (K<sub>2</sub>O)</b>	lbs/acre	86	86
	kg/Ha	96	96
	USD per kg	1.05	1.05
	USD per Ha	101	101
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>29</b>	<b>29</b>

<b>Status-Quo Nutrient Cost</b>	<b>USD per Ha</b>	<b>936</b>	<b>936</b>
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<b>Total Nutrient Cost Savings</b>	<b>USD per Ha</b>	<b>237</b>	<b>237</b>
<i>Percent Cost Saving</i>		25.3%	25.3%

Soil Boost	Low	High
<b>Kingston Organic</b>	<b>120</b>	<b>120</b>

Water Use Reductions		Low	High
<b>Water (H<sub>2</sub>O)</b>	inch/acre	33.2	33.2
	USD/acre-inch	0.00	0.00
	USD per Ha	0	0
Est. Water Reduction	cubic meters	1,687	1,687
<b>Water Cost Savings</b>	<b>USD per Ha</b>	<b>0</b>	<b>0</b>
<i>Percent Cost Saving</i>		-	-

Projected Yield Increase		Low	High
Mature Cacao	kg/Ha	2,400	3,000
Price	USD per kg	1.77	1.77
Status-Quo Revenue	USD per Ha	4,246	5,307
Yield Increase	percent	15%	25%
<b>Yield Increase Value</b>	<b>USD per Ha</b>	<b>637</b>	<b>1,327</b>

prepared as of:

4/23/2022

This illustration is an estimate of results, based on data sourced openly and without full consideration of a specific farm's conditions, practices, soil condition, environmental and climatic conditions, or other elements that can impact performance and yields. It is intended to be an estimate but not a guarantee of savings and yields. If we receive specific input and soil condition data for your specific application and conditions, we can adjust the results to be more reflective of specific conditions.

