



**ILLUSTRATIVE SOIL RESTORATION PROGRAM**  
**Silvex Sesame - Nigeria - USD**

Client Customized Inputs Highlighted

<b>Crop</b>	<b>Silvex Sesame</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	2,777
UAN (30% N)		N	
Muriate of Potash		K <sub>2</sub> O	1,577
DAP		N + P <sub>2</sub> O <sub>5</sub>	
SSP		P <sub>2</sub> O <sub>5</sub> + Ca + S	2,415

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	1,878	1,878
Status Quo Costs	331	331
<b>Status Quo Gross Profit Margin</b>	<b>1,547</b>	<b>1,547</b>

Revenue Increase	USD per Ha	282	470
NPK Nutrient Savings	USD per Ha	82	82
Water Use Savings	USD per Ha	0	0
KO Soil Inputs	USD per Ha	-100	-100
<b>Net Cost Savings</b>	<b>USD per Ha</b>	<b>-18</b>	<b>-18</b>

Net Increase in Profits	USD per Ha	264	451
% Increase in Profits		17.0%	29.2%

Nutrient Savings		Low	High
<b>Nitrogen (N)</b>	lbs/acre	68	68
	kg/Ha	76	76
	USD per kg	2.78	2.78
	USD per Ha	211	211
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>57</b>	<b>57</b>
<b>Phosphorus (P<sub>2</sub>O<sub>5</sub>)</b>	lbs/acre	27	27
	kg/Ha	30	30
	USD per kg	2.41	2.41
	USD per Ha	72	72
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>11</b>	<b>11</b>
<b>Potassium (K<sub>2</sub>O)</b>	lbs/acre	27	27
	kg/Ha	30	30
	USD per kg	1.58	1.58
	USD per Ha	47	47
<b>Estimated Cost Savings</b>	<b>USD per Ha</b>	<b>14</b>	<b>14</b>
<b>Status-Quo Nutrient Cost</b>	<b>USD per Ha</b>	<b>331</b>	<b>331</b>
<b>Total Nutrient Cost Savings</b>	<b>USD per Ha</b>	<b>82</b>	<b>82</b>
<b>Percent Cost Saving</b>		24.7%	24.7%

Soil Boost	Low	High
<b>Kingston Organic</b>	<b>100</b>	<b>100</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>
<b>Percent Cost Saving</b>		-	-

Projected Yield Increase		Low	High
<b>Silvex Sesame</b>	kg/Ha	1,000	1,000
Price	USD per kg	1.88	1.88
Status-Quo Revenue	USD per Ha	1,878	1,878
Yield Increase	percent	15%	25%
<b>Yield Increase Value</b>	<b>USD per Ha</b>	<b>282</b>	<b>470</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.

