



ILLUSTRATIVE SOIL RESTORATION PROGRAM
Silvex Maize - Nigeria - USD

Client Customized Inputs Highlighted

| | |
|-----------------------|---------------------|
| Crop | Silvex Maize |
| Country/Region | Nigeria |
| Client | Silvex |
| Currency | USD |

| 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 | Granular |
| Soil Carbon restoration | Yes |

| 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 | 2,737 |
| UAN (30% N) | | N | |
| Muriate of Potash | | K ₂ O | 1,577 |
| DAP | | N + P ₂ O ₅ | |
| SSP | | P ₂ O ₅ + 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 | 2,062 | 2,062 |
| Status Quo Costs | 605 | 605 |
| Status Quo Gross Profit Margin | 1,457 | 1,457 |

| Revenue Increase | USD per Ha | 309 | 516 |
|-------------------------|-------------------|-----------|-----------|
| NPK Nutrient Savings | USD per Ha | 150 | 150 |
| Water Use Savings | USD per Ha | 0 | 0 |
| KO Soil Inputs | USD per Ha | -120 | -120 |
| Net Cost Savings | USD per Ha | 30 | 30 |

| Net Increase in Profits | USD per Ha | 340 | 546 |
|-------------------------|------------|-------|-------|
| % Increase in Profits | | 23.3% | 37.5% |

| Nutrient Savings | | Low | High |
|--|-------------------|------------|------------|
| Nitrogen (N) | lbs/acre | 129 | 129 |
| | kg/Ha | 145 | 145 |
| | USD per kg | 2.74 | 2.74 |
| | USD per Ha | 396 | 396 |
| Estimated Cost Savings | USD per Ha | 107 | 107 |
| Phosphorus (P₂O₅) | lbs/acre | 47 | 47 |
| | kg/Ha | 53 | 53 |
| | USD per kg | 2.41 | 2.41 |
| | USD per Ha | 127 | 127 |
| Estimated Cost Savings | USD per Ha | 20 | 20 |
| Potassium (K₂O) | lbs/acre | 47 | 47 |
| | kg/Ha | 53 | 53 |
| | USD per kg | 1.58 | 1.58 |
| | USD per Ha | 83 | 83 |
| Estimated Cost Savings | USD per Ha | 24 | 24 |
| Status-Quo Nutrient Cost | USD per Ha | 605 | 605 |
| Total Nutrient Cost Savings | USD per Ha | 150 | 150 |
| <i>Percent Cost Saving</i> | | 24.8% | 24.8% |

| Soil Boost | Low | High |
|-------------------------|------------|------------|
| Kingston Organic | 120 | 120 |

| Water Use Reductions | | Low | High |
|-------------------------------|-------------------|----------|----------|
| Water (H₂O) | 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 |
| Water Cost Savings | USD per Ha | 0 | 0 |
| <i>Percent Cost Saving</i> | | - | - |

| Projected Yield Increase | | Low | High |
|-----------------------------|-------------------|------------|------------|
| Silvex Maize | kg/Ha | 4,500 | 4,500 |
| Price | USD per kg | 0.46 | 0.46 |
| Status-Quo Revenue | USD per Ha | 2,062 | 2,062 |
| Yield Increase | percent | 15% | 25% |
| Yield Increase Value | USD per Ha | 309 | 516 |

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.

