Problem
West Pokot farms are not reaching the maximum yield potential. Currently grown beans are suffering due to drought and infertile soil.

Initial Assessment
- West Pokot is major bean producer
- Bean failure:
  - Lacking soil fertility
  - Limited water supply
- Government aid attempts failed
  - Farmer resistance
  - Crop failure leads to uncertainty

Where Is West Pokot?
West Pokot is located in Kenya’s Great Rift Valley region, bordering Uganda.

Pinto Beans vs Haricot Beans

<table>
<thead>
<tr>
<th></th>
<th>Pinto Beans</th>
<th>Haricot Beans</th>
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</thead>
<tbody>
<tr>
<td>Growing Period</td>
<td>90-150 days</td>
<td>42 days</td>
</tr>
<tr>
<td>Soil Type</td>
<td>Moist soil</td>
<td>Marginal soil</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>N/P fertilizers</td>
<td>No fertilizers</td>
</tr>
<tr>
<td>Germination</td>
<td>Soil 75°F</td>
<td>Soil 64°F</td>
</tr>
</tbody>
</table>

The “One Farmer” Plan
Domino effect: Convince one farmer, others will follow

Side by Side:
- Plant two different plots, side by side
  - Plot 1: currently grown bean
  - Plot 2: new bean
- Demonstrate the yield potential of both to farmer

Assessment Plan
A 3 step evaluation plan with a final assessment:
1. 1st growing period evaluation: assess yield, prices, profit, etc.
2. 2nd growing period evaluation: assess yield, prices, profit, etc.
3. 3rd growing season evaluation: assess yield, profit, price, etc. Combine all data and assess overall for three seasons.
Final assessment: Go back 2 years later and assess the family economically, socially, their overall health, etc.

The Future
- Two harvests in one growing season
- Minimized water consumption
- Higher yield
- Increased income
Implement with other crops for improvement of all farms

References

Better Beans, Bigger Bellies
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