RUHIIRA, UGANDA:
Addressing links between agriculture and nutrition
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July 1- August 16, 2008
Study Questions

- What is the level of crop diversity on farm?
- What is the level of crop diversity on farm from a nutritional perspective?
- Which species or varieties have potential to fill in nutritional gaps?
- How are crop and livestock diversity related to diet diversity and to nutritional status at the household level?
Field visit, surveys, and focal groups

• **60 Household surveys**
  – FANTA nutrition and food security
  – Household purchase and sale of food items
  – Contribution to school feeding
  – Diversity of livestock, and seed
  – Plot level agrobiodiversity survey
  – Collection of basic characteristics of plot: position, GPS, soil samples

• **10 Focal groups**
  – Indigenous, neglected crops
  – Post-harvest practices
Plot level Agrobiodiversity

- 72 different food crops
- Average species richness per household: 19.88
- Grown in small quantities within the banana plantation
- Average species richness per banana plantation: 13.77
- Many were in the majority of plots: eggplant, amaranth, cocoyam, chili pepper
Species Richness (MV1)

Mean: 20.37
Median: 20.00
SD: 4.12

Species Richness (MV2)

Mean: 19.38
Median: 21.00
SD: 6.84
### Agrobiodiversity

<table>
<thead>
<tr>
<th>Crops</th>
<th># of varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bananas:</td>
<td>36 varieties</td>
</tr>
<tr>
<td>Sweet Potatoes:</td>
<td>27 varieties</td>
</tr>
<tr>
<td>Beans:</td>
<td>21 varieties</td>
</tr>
<tr>
<td>Millet:</td>
<td>13 varieties</td>
</tr>
<tr>
<td>Potatoes:</td>
<td>11 varieties</td>
</tr>
<tr>
<td>Amaranth:</td>
<td>10 varieties</td>
</tr>
<tr>
<td>Cassava:</td>
<td>9 varieties</td>
</tr>
<tr>
<td>Eggplant:</td>
<td>8 varieties</td>
</tr>
</tbody>
</table>
Underutilized crops
Household Economies

Average: 35,395
Median: 15,000
SD: 55,560

1600 Ugandan shillings = $1
MVI Crops Sold: 2 Weeks

 added value products
 animal products
 coffee
 cereals
 beans
 tubers
 other fruits
 banana

 MV1 Households
Household Economy, cont.

Income from Crop Sales

MV1 Households

Other sources
Bananas

[Bar chart showing income from crop sales for MV1 Households, with bars representing different percentages for each household, split between "Other sources" and "Bananas".]