**Local agricultural R&D**

**Seed/input delivery system**

*Fertilizer*

AG\_3A\_37\_Use any organic fertilizer

AG\_3A\_38\_Quantity of organic fertilizer

AG\_3A\_43\_Use any inorganic fertilizer

AG\_3A\_44\_Type of inorganic fertilizer

AG\_3A\_45\_Quantity of inorganic fertilizer

AG\_3B\_37\_Use any organic fertilizer

AG\_3B\_38\_Quantity of organic fertilizer

AG\_3B\_43\_Use any inorganic fertilizer

AG\_3B\_44\_Type of inorganic fertilizer

AG\_3B\_45\_Quantity of inorganic fertilizer

*Pesticide/Herbicide*

AG\_3A\_49\_Use any pesticide/herbicide

AG\_3A\_50\_Type of pesticide/herbicide

AG\_3A\_51\_Quanitity of pesticide/herbicide

AG\_3B\_49\_Use any pesticide/herbicide

AG\_3B\_50\_Type of pesticide/herbicide

AG\_3B\_51\_Quanitity of pesticide/herbicide

*Inputs on credit*

AG\_3A\_55\_Receive any inputs on credit

AG\_3A\_56\_List all types of inputs received on credit

AG\_3B\_55\_Receive any inputs on credit

AG\_3B\_56\_List all types of inputs received on credit

*Seeds*

AG\_4A\_19\_Purchase any seed

AG\_4A\_20\_Value of total seeds purchased

AG\_4A\_21\_Where were seeds purchased

AG\_4A\_22\_What type of seed was purchased

AG\_4A\_23\_What type of improved seed was purchased

AG\_4B\_19\_Purchase any seed

AG\_4B\_20\_Value of total seeds purchased

AG\_4B\_21\_Where were seeds purchased

AG\_4B\_22\_What type of seed was purchased

AG\_4B\_23\_What type of improved seed was purchased

COMM\_CE\_5\_Is it possible to buy improved maize seeds in this village

COMM\_CE\_6\_What is price

*Farm implements and machinery*

AG\_11\_1\_How many items owned

AG\_11\_2\_Value of items if sold

**Farm financial services**

AG\_3A\_4\_Income from renting plot

AG\_3B\_4\_Income from renting plot

AG\_5A\_1\_Crops sold

AG\_5A\_2\_Quantity sold

AG\_5A\_3\_Value of sales

AG\_5B\_1\_Crops sold

AG\_5B\_2\_Quantity sold

AG\_5B\_3\_Value of sales

AG\_7A\_2\_Fruit sold

AG\_7A\_3\_Quantity sold

AG\_7A\_4\_Value of sales

AG\_7B\_2\_Permanent crop sold

AG\_7B\_3\_Quantity sold

AG\_7B\_4\_Value of sales

AG\_9\_5\_By-product sold

AG\_9\_6\_Quantity sold

AG\_9\_8\_Value of sales

AG\_10A\_8\_How many live animals sold

AG\_10A\_9\_Value of sales

AG\_10A\_13\_How many slaughtered animals sold

AG\_10A\_14\_Value of sales

AG\_10B\_4\_Animal by-product sold

AG\_10B\_5\_Quantity sold

AG\_10B\_6\_Value of sales

COMM\_CB\_1\_Is service available\_o (bank) & p (SACCO)

COMM\_CE\_9\_Are there any SACCOs in this village

COMM\_CE\_10\_How many members does the SACCO have

COMM\_CE\_11\_How many female members does SACCO have

**Water management system**

AG\_3A\_15\_Was the plot irrigated

AG\_3A\_16\_What type of irrigation

AG\_3A\_17\_Method of obtaining water

AG\_3A\_18\_Source of water

AG\_3B\_15\_Was the plot irrigated

AG\_3B\_16\_What type of irrigation

AG\_3B\_17\_Method of obtaining water

AG\_3B\_18\_Source of water

COMM\_CC\_1\_Has village invested in\_c (water supply – wells, pumps, etc)

COMM\_CC\_1\_Has village invested in\_l (irrigation schemes)

**Soil management system**

AG\_3A\_7\_Soil type of plot

AG\_3A\_8\_Soil quality of plot

AG\_3A\_9\_How did you know soil quality

AG\_3A\_10\_Were there erosion problems

AG\_3A\_11\_Cause of erosion problems

AG\_3A\_12\_Was there any erosion control

AG\_3A\_13\_What type of erosion control

AG\_3B\_7\_Soil type of plot

AG\_3B\_8\_Soil quality of plot

AG\_3B\_9\_How did you know soil quality

AG\_3B\_10\_Were there erosion problems

AG\_3B\_11\_Cause of erosion problems

AG\_3B\_12\_Was there any erosion control

AG\_3B\_13\_What type of erosion control

**Extension system**

AG\_13\_1\_Advice received from extension, NGO, farmer’s association, large scale farmer, or other

AG\_13\_2\_Advice about: agricultural production, agro-processing, marketing, fishing, livestock, prevention of livestock diseases

AG\_13\_4\_Did you pay for advice

AG\_13\_5\_How much did you pay

AG\_13\_6\_How many times did someone visit farm in past 12 months

**Transportation system**

AG\_3A\_2\_Distance from plot to market

AG\_3B\_2\_Distance from plot to market

AG\_5A\_9\_Transport crop for sale

AG\_5A\_10\_Average distance crop was transported for sale

AG\_5A\_11\_How many times was crop transported for sale

AG\_5A\_12\_How was crop transported

AG\_5A\_13\_How much did you pay to transport crop

AG\_5B\_9\_Transport crop for sale

AG\_5B\_10\_Average distance crop was transported for sale

AG\_5B\_11\_How many times was crop transported for sale

AG\_5B\_12\_How was crop transported

AG\_5B\_13\_How much did you pay to transport crop

COMM\_CB\_2\_Cost of transport from village center to various services

COMM\_CB\_3\_Time taken to walk from village center to various services

COMM\_CC\_1\_Has village invested in\_a (road construction)

**Market infrastructure**

AG\_3A\_2\_Distance from plot to market

AG\_3B\_2\_Distance from plot to market

AG\_7A\_5\_Where was most of fruit sold

AG\_7B\_5\_Where was most of permanent crop sold

AG\_8A\_1\_Did you cultivate crops, fruit trees, or permanent crops as part of outgrower scheme/ contract farming

AG\_8A\_2\_What crops grown as part of outgrower scheme/contract farming

AG\_8B\_2\_What crops grown as part of outgrower scheme/contract farming

AG\_8C\_2\_What fruit trees or permanent crops grown as part of outgrower scheme/contract farming

AG\_9\_9\_Where was bi-product sold

AG\_10A\_10\_Where was animal sold

AG\_10B\_7\_Where was animal bi-product sold

COMM\_CB\_1\_Is service available\_l & m (market)

COMM\_CC\_1\_Has village invested in\_b (markets)

**Value addition system**

AG\_9\_1\_Did household process any products harvested on the farm

AG\_9\_2\_List crops processed

AG\_9\_3\_What is by-product produced

AG\_9\_4\_What is quantity produced

**Institutions**

AG\_13\_7\_Receive any information about agricultural prices

COMM\_CD\_1\_Village land use

COMM\_CE\_1\_Are there any farmer cooperatives in the village

COMM\_CE\_2\_How many different groups

COMM\_CE\_3\_How many farmers participate

COMM\_CE\_4\_Which activities do cooperatives do as group

COMM\_CF\_16\_Was village formed by 1971 Villagisation act?

COMM\_CG\_1\_How many village assemblies held