

# UNDP-USAID Capacity Building Program on the Economics of Adaptation

*Asian Climate Adaptation Study on the Economics of Adaptation in the Agriculture Sector*

Countries Conducting Survey: Bangladesh, Cambodia, Indonesia, Mongolia, Nepal, Sri Lanka, Thailand, Philippines and Vietnam

## Questionnaire on Farm Households\*

### Introductory Statement:

"Scientific evidence has confirmed that the climate will likely change in the future with implications for agriculture. The information provided by you in this interview about your farm activities in the period from November 15<sup>th</sup> 2012 to November 15<sup>th</sup> 2013<sup>†</sup> will contribute to understanding the likely impacts of climate change on agriculture and the best ways to adapt in: \_\_\_\_\_<sup>‡</sup> and across Asia. Your responses to these questions are anonymous.

This country study is being conducted by: \_\_\_\_\_<sup>§</sup>

Thank you for your kind co-operation."

\* Prepared by: Yale University (USA), UNDP and ASIA ADAPT.

<sup>†</sup> Dates ask for the last cropping year. Typically, the summer season harvesting has been concluded by November and the winter season planting starts.

<sup>‡</sup> COUNTRY TEAM: please write the name of your country.

<sup>§</sup> COUNTRY TEAM: please write the name of your institution in the space provided.

# 1. GENERAL HOUSEHOLD INFORMATION (To be completed for ALL RESPONDENTS)

## 1.0. BASIC INFORMATION

1.0.1.	Please state the relationship of the respondent to the head of household		1. Head of household; 2. Husband; 3. Wife; 4. Child; 5. Grandchild; 6. Parents; 7. Siblings; 8. Other family members (includes household helpers); 9. Manager/other proxy for owner
1.0.2.	Who makes decisions on the farm/for the herd?		1. Head of household; 2. Husband; 3. Wife; 4. Child; 5. Grandchild; 6. Parents; 7. Siblings; 8. Other family members (includes household helpers); 9. Manager/other proxy for owner

## 1.1. CLIMATE CHANGE, AGRICULTURE AND FARMER PERCEPTIONS

Surveyor: The word "Long-term" in the following questions means the last 1 or 2 decades (or if the farmer has farmed for less than a decade, since whenever she or he began farming).

1.1.1.	How long have you been a herder/farmer/both (or herd/farm manager)?		Years
1.1.2.1.1.	Have you noticed any long-term shifts in temperature on your pastureland/where you farm?		1. No; 2. Yes
→ If respondent answered "No" to 1.1.2.1.1., go to 1.1.2.2.1.			
1.1.2.1.2.	Has it become cooler or warmer?		1. Cooler; 2. Warmer
1.1.2.1.3.	What kinds of adaptations have you made for temperature shifts?		
1.1.2.1.3.1.	<b>Crops</b>		
1.1.2.1.3.1.1.	Changed planting dates		1. No; 2. Yes
1.1.2.1.3.1.2.	Change crop types		1. No; 2. Yes
1.1.2.1.3.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.2.1.3.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.2.1.3.2.	<b>Livestock</b>		
1.1.2.1.3.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.2.1.3.2.2.	Invest in new breeds		1. No; 2. Yes
1.1.2.1.3.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes
1.1.2.1.3.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.2.1.3.2.5.	Build storage for hay and fodder		1. No; 2. Yes

1.1.2.1.3.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.2.1.3.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.2.1.3.2.8.	Other		1. No; 2. Yes
1.1.2.2.1.	Have you noticed any long term shifts in precipitation where you farm/on your pastureland?		1. No; 2. Yes
→ If respondent answered "No" to 1.1.2.2.1., go to 1.1.2.3.1.			
1.1.2.2.2.	Has it become drier or wetter?		1. Drier; 2. Wetter
1.1.2.2.3.	What kinds of adaptations have you made for precipitation shifts?		
1.1.2.2.3.1.	<b>Crops</b>		
1.1.2.2.3.1.1.	Changed planting dates		1. No; 2. Yes
1.1.2.2.3.1.2.	Change crop types		1. No; 2. Yes
1.1.2.2.3.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.2.2.3.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.2.2.3.2.	<b>Livestock</b>		
1.1.2.2.3.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.2.2.3.2.2.	Invest in new breeds		1. No; 2. Yes
1.1.2.2.3.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes
1.1.2.2.3.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.2.2.3.2.5.	Build storage for hay and fodder		1. No; 2. Yes
1.1.2.2.3.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.2.2.3.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.2.2.3.2.8.	Other		1. No; 2. Yes
1.1.2.3.1.	Have you noticed any long term changes in frequency of droughts where you farm/on your pastureland?		1. No; 2. Yes
→ If respondent answered "No" to 1.1.2.3.1., go to 1.1.2.4.1.			

1.1.2.3.2.	Has the frequency of droughts increased or decreased?		1. Increased; 2. Decreased
1.1.2.3.3.	What kinds of adaptations have you made to changes in droughts?		
1.1.2.3.3.1.	<b>Crops</b>		
1.1.2.3.3.1.1.	Changed planting dates		1. No; 2. Yes
1.1.2.3.3.1.2.	Change crop types		1. No; 2. Yes
1.1.2.3.3.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.2.3.3.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.2.3.3.2.	<b>Livestock</b>		
1.1.2.3.3.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.2.3.3.2.2.	Invest in new breeds		1. No; 2. Yes
1.1.2.3.3.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes
1.1.2.3.3.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.2.3.3.2.5.	Build storage for hay and fodder		1. No; 2. Yes
1.1.2.3.3.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.2.3.3.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.2.3.3.2.8.	Other		1. No; 2. Yes
1.1.2.4.1.	Have you noticed any long term shifts in frequency of flooding where you farm/on your pastureland?		1. No; 2. Yes
→ If respondent answered "No" to 1.1.2.4.1., go to 1.1.2.5.1.			
1.1.2.4.2.	Has flooding frequency increased or decreased?		1. Increased; 2. Decreased
1.1.2.4.3.	What kinds of adaptations have you made to shifts in frequency of flooding?		
1.1.2.4.3.1.	<b>Crops</b>		
1.1.2.4.3.1.1.	Changed planting dates		1. No; 2. Yes
1.1.2.4.3.1.2.	Change crop types		1. No; 2. Yes

1.1.2.4.3.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.2.4.3.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.2.4.3.2.	<b>Livestock</b>		
1.1.2.4.3.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.2.4.3.2.2.	Invest in new breeds		1. No; 2. Yes
1.1.2.4.3.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes
1.1.2.4.3.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.2.4.3.2.5.	Build storage for hay and fodder		1. No; 2. Yes
1.1.2.4.3.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.2.4.3.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.2.4.3.2.8.	Other		1. No; 2. Yes
1.1.2.5.1.	Have you noticed any long term shifts in pest and disease incidence on your crops/herds?		
<i>If respondent answered "No" to 1.1.2.5.1., go to 1.1.26.1.</i>			
1.1.2.5.2.	Has pest and disease incidence increased or decreased?		1. Increased; 2. Decreased
1.1.2.5.3.	What kinds of adaptations have you made to shifts in pest and disease incidence?		
1.1.2.5.3.1.	<b>Crops</b>		
1.1.2.5.3.1.1.	Changed planting dates		1. No; 2. Yes
1.1.2.5.3.1.2.	Change crop types		1. No; 2. Yes
1.1.2.5.3.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.2.5.3.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.2.5.3.2.	<b>Livestock</b>		
1.1.2.5.3.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.2.5.3.2.2.	Invest in new breeds		1. No; 2. Yes

1.1.2.5.3.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes
1.1.2.5.3.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.2.5.3.2.5.	Build storage for hay and fodder		1. No; 2. Yes
1.1.2.5.3.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.2.5.3.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.2.5.3.2.8.	Other		1. No; 2. Yes

1.1.3.	What method do you use to predict the weather next season:		
1.1.3.1.1.	Do you use past weather to predict next year's weather?		1. No; 2. Yes

→ If respondent answered "No" to 1.1.4.1.1. go to 1.1.4.2.

1.1.3.1.2.	How many years back do you consider?		Number of years
1.1.3.2.	Do you rely on expert opinions?		1. No; 2. Yes
1.1.3.3.	Do you rely on newspaper, radio or TV		1. No; 2. Yes
1.1.4.	What strategies do you use to adapt your farm to the changes in weather from year to year?		
1.1.4.1.	<b>Crops</b>		
1.1.4.1.1.	Changed planting dates		1. No; 2. Yes
1.1.4.1.2.	Change crop types		1. No; 2. Yes
1.1.4.1.3.	Use different crop varieties (hybrid or genetically modified)		1. No; 2. Yes
1.1.4.1.4.	Made irrigation investment (such as sprinkler or groundwater pump)		1. No; 2. Yes
1.1.4.2.	<b>Livestock</b>		
1.1.4.2.1.	Alter livestock mix		1. No; 2. Yes
1.1.4.2.2.	Invest in new breeds		1. No; 2. Yes
1.1.4.2.3.	Build winter, spring, autumn shelter for animal		1. No; 2. Yes

1.1.4.2.4.	Made investment for water (such as, digging well)		1. No; 2. Yes
1.1.4.2.5.	Build storage for hay and fodder		1. No; 2. Yes
1.1.4.2.6.	Migrate to new pasture		1. No; 2. Yes
1.1.4.2.7.	Purchase livestock insurance		1. No; 2. Yes
1.1.4.2.8.	Other		1. No; 2. Yes

## 1.2. HOUSEHOLD ROSTER

1.2.1.	Household size (of owner/manager of the farm)		Number
1.2.2.	Household characteristics:		
1.2.2.1.	Age of the head of the household		Years
1.2.2.2.	Gender of the head of the household		1: Female; 2: Male
1.2.2.3.	Education of the head of the household (total years)		Years
1.2.2.4.1.	Number of adult males (16 plus)		Number
1.2.2.4.2.	How many of these adult males work on farm(s) that you manage?		Number
1.2.2.5.1.	Number of adult females (16 plus)		Number
1.2.2.5.2.	How many of these adult females work on farm(s) that you manage?		Number
1.2.2.6.1.	Number of male children (under 16)		Number
1.2.2.6.2.	How many of these male children work on farm(s) that you manage?		Number
1.2.2.7.1.	Number of female children (under 16)		Number
1.2.2.7.2.	How many of these female children work on farm(s) that you manage?		Number
1.2.3.	Does the household have electricity?		1. No; 2. Yes
1.2.3.1	What is the source of electricity for your household?		1. Solar panel; 2. Electricity grid; 3. Other (please specify)
1.2.3.2	How many hours of electricity do you have in a day?		hours

1.2.4.	Does the household have access to a telephone?		1. No; 2. Yes
1.2.5.	Does the household have a computer?		1. No; 2. Yes
1.2.6.	Does the household have access to the internet?		1. No; 2. Yes

### 1.3. OCCUPATION OF THE HEAD OF HOUSEHOLD

1.3.1.	What is the <b>primary</b> occupation of the head of the household in terms of income?		1. Farmer; 2. Agriculture (farm) laborer; 3. Artisan; 4. Office worker; 5. Civil Servant; 6. Teacher; 7. Health worker; 8. Trader; 9. Student; 10. Unemployed; 11. Not in labor force; 12. Other non-agriculture worker
1.3.2.	What is the <b>secondary</b> occupation of the head of the household in terms of income?		1. Farmer; 2. Agriculture (farm) laborer; 3. Artisan; 4. Office worker; 5. Civil Servant; 6. Teacher; 7. Health worker; 8. Trader; 9. Student; 10. Unemployed; 11. Not in labor force; 12. Other non-agriculture worker

## 2. CROP ACTIVITIES (to be completed ONLY FOR FARMERS GROWING CROPS)

2.0.	Do you manage any land to grow crops?		1 = No, 2 = Yes
→ If respondent answered "No" to 2.0. go to section "3. LIVESTOCK ACTIVITIES"			

### 2.1. SEASONS GUIDE

	Bangladesh	Cambodia	Indonesia	Lao	Nepal	Philippines	Sri Lanka	Thailand	Vietnam
Season 1	Rabi				Hiunde Bali		Maha		Dong Xuan
Season 2	Kharif-1				Barse Bali		Yala		He Thu
Season 3	Kharif-2								Thu Dong/Xuan He

### 2.2. FARMING AREAS

2.2.0.	Unit of land that will be used in this interview		1. Acre; 2. Hectare; 3. Rai; 4. Sao –Northern; 5. Sao –Central; 6. Sao – Southern; 7. Other: _____
2.2.1.	How many separate plots do you use for cropland?		1. Only 1 single area is farmed; 2. 2 or more areas are farmed
2.2.2.	Largest single area ( <i>Interviewer: this area is what is referred to as <b>PLOT 1</b> in the ensuing questions that make reference to a "Plot"</i> )		Land units as specified in 2.2.0.
→ If respondent answered "1" to 2.2.1. go to "2.3. LAND USE FOR EACH PLOT"			
2.2.3.	How many additional plots did you use for crops in 2012?		Number
2.2.4.	Sum the size of all the additional plots ( <i>Interviewer: this cumulative area is referred to as <b>PLOT 2</b> in the ensuing questions</i> )		Land units as specified in 2.2.0.

### 2.3. LAND USE FOR EACH PLOT

2.3.1.	<b>Plot 1</b>		
2.3.1.1.	System of farming		1. Shifting cultivation (With long fallow period); 2. Continuous cropping (no fallow period); 3. Continuous cropping with multiple rotations (includes short fallow period); 4. Other (specify)
2.3.1.2.	Tenure type		1. Own land and own use; 2. Own land and rent to others; 3. Sharecropped land; 4. Communal land (traditional ownership); 5. Rented land; 6. Borrowed land (Do not pay for usage); 7. Other (specify)
2.3.1.3.	How many (average) number of years have you used these plots?		Years
2.3.1.4.	Total rent paid (per month) if plot is leased or rented		Currency amount per month
2.3.1.5.	<b>Season 1</b>		

2.3.1.5.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.1.5.2.	Fallow Area		Land units as specified in 2.2.0.
2.3.1.6.	<b>Season 2</b>		
2.3.1.6.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.1.6.2.	Fallow Area		Land units as specified in 2.2.0.
2.3.1.7.	<b>Season 3</b>		
2.3.1.7.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.1.7.2.	Fallow Area		Land units as specified in 2.2.0.

2.3.2.	<b>Plot 2</b>		
2.3.2.1.	System of farming		1. Shifting cultivation (With long fallow period); 2. Continuous cropping (no fallow period); 3. Continuous cropping with multiple rotations (includes short fallow period); 4. Other (specify)
2.3.2.2.	Tenure type		1. Own land and own use; 2. Own land and rent to others; 3. Sharecropped land; 4. Communal land (traditional ownership); 5. Rented land; 6. Borrowed land (Do not pay for usage); 7. Other (specify)
2.3.2.3.	How many (average) number of years have you used these plots?		Years
2.3.2.4.	Total rent paid (per month) if plot is leased or rented		Currency amount per month
2.3.2.5.	<b>Season 1</b>		
2.3.2.5.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.2.5.2.	Fallow Area		Land units as specified in 2.2.0.
2.3.2.6.	<b>Season 2</b>		
2.3.2.6.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.2.6.2.	Fallow Area		Land units as specified in 2.2.0.
2.3.2.7.	<b>Season 3</b>		
2.3.2.7.1.	Planted/Cultivated Area		Land units as specified in 2.2.0.
2.3.2.7.2.	Fallow Area		Land units as specified in 2.2.0.

## 2.4. LABOR FOR CROPS

Interviewer: In the following sections you will notice a number in each answer space. Ignore this; it is simply a cell-reference number that will be used to encode the answers.

### 2.4.1. Household Labor

		Adult male workers			Adult female workers			Child workers (under 16)		
		Number employed	Average hours worked per week	Total weeks employed	Number employed	Average hours worked per week	Total weeks employed	Number employed	Average hours worked per week	Total weeks employed
Season 1	Plot 1	2.4.1.1.1.1.	2.4.1.1.1.2.	2.4.1.1.1.3.	2.4.1.1.1.4.	2.4.1.1.1.5.	2.4.1.1.1.6.	2.4.1.1.1.7.	2.4.1.1.1.8.	2.4.1.1.1.9.
	Plot 2	2.4.1.1.2.1.	2.4.1.1.2.2.	2.4.1.1.2.3.	2.4.1.1.2.4.	2.4.1.1.2.5.	2.4.1.1.2.6.	2.4.1.1.2.7.	2.4.1.1.2.8.	2.4.1.1.2.9.
Season 2	Plot 1	2.4.1.2.1.1.	2.4.1.2.1.2.	2.4.1.2.1.3.	2.4.1.2.1.4.	2.4.1.2.1.5.	2.4.1.2.1.6.	2.4.1.2.1.7.	2.4.1.2.1.8.	2.4.1.2.1.9.
	Plot 2	2.4.1.2.2.1.	2.4.1.2.2.2.	2.4.1.2.2.3.	2.4.1.2.2.4.	2.4.1.2.2.5.	2.4.1.2.2.6.	2.4.1.2.2.7.	2.4.1.2.2.8.	2.4.1.2.2.9.
Season 3	Plot 1	2.4.1.3.1.1.	2.4.1.3.1.2.	2.4.1.3.1.3.	2.4.1.3.1.4.	2.4.1.3.1.5.	2.4.1.3.1.6.	2.4.1.3.1.7.	2.4.1.3.1.8.	2.4.1.3.1.9.
	Plot 2	2.4.1.3.2.1.	2.4.1.3.2.2.	2.4.1.3.2.3.	2.4.1.3.2.4.	2.4.1.3.2.5.	2.4.1.3.2.6.	2.4.1.3.2.7.	2.4.1.3.2.8.	2.4.1.3.2.9.
Table Key		Number	Hours per week	Weeks	Number	Hours per week	Weeks	Number	Hours per week	Weeks

**2.4.2. Hired Labor**

*Interviewer: We are not breaking-down hired labor into adult male, adult female and children.*

		Number employed	Average hours worked per week	Total weeks employed	Wage	Wage Rate
Season 1	Plot 1	2.4.2.1.1.1	2.4.2.1.1.2	2.4.2.1.1.3	2.4.2.1.1.4	2.4.2.1.1.5
	Plot 2	2.4.2.1.2.1	2.4.2.1.2.2	2.4.2.1.2.3	2.4.2.1.2.4	2.4.2.1.2.5
Season 2	Plot 1	2.4.2.2.1.1	2.4.2.2.1.2	2.4.2.2.1.3	2.4.2.2.1.4	2.4.2.2.1.5
	Plot 2	2.4.2.2.2.1	2.4.2.2.2.2	2.4.2.2.2.3	2.4.2.2.2.4	2.4.2.2.2.5
Season 3	Plot 1	2.4.2.3.1.1	2.4.2.3.1.2	2.4.2.3.1.3	2.4.2.3.1.4	2.4.2.3.1.5
	Plot 2	2.4.2.3.2.1	2.4.2.3.2.2	2.4.2.3.2.3	2.4.2.3.2.4	2.4.2.3.2.5
Table Key		Number	Hours per week	Weeks	Local currency unit/hour	1. Hourly 2. Daily 3. Weekly 4. Monthly 5. Seasonal

## 2.5. INFORMATION ON PRIMARY CROPS GROWN

Code	Crop Name	Code	Crop Name	Code	Crop Name	Code	Crop Name	Code	Crop Name	Code	Crop Name
1	Alfalfa	26	Clover	51	ground nut	76	Mungbean	101	Pumpkin	126	Tomato
2	Apricot-tree	27	Cocoa	52	Groundnut	77	Mustard	102	Rabi Rice	127	Turmeric
3	Avacado	28	cocoa	53	Guava	78	Nutmeg	103	Radish	128	Water melon
4	Baby corn	29	Coconut	54	Indigenous vegetables	79	Oil palm	104	Rambutan	129	Wheat
5	Banana	30	Coffee	55	Jackfruit	80	Okra	105	Rice	130	Winter vegetables
6	Barley	31	Cotton	56	Jute	81	Onion	106	Rubber	131	Yam
7	Beans	32	Cowpea	57	Kharif-1 Rice	82	Ornamental plants	107	Safflower	132	Other (specify)
8	Beet	33	cowpea	58	Kharif-2 Rice	83	Palm dates	108	Salad	133	Other (specify)
9	Bitter gourd	34	Cucumber	59	Kohlrabi	84	Papaya	109	Sesame	134	Other (specify)
10	Black gram	35	Custard apple	60	Kola	85	Paprika	110	Shallots	135	Other (specify)
11	Blue dragon	36	drumstick	61	Leeks	86	Para rubber	111	Shea nut	136	Other (specify)
12	Brinjal (egg plant)	37	Durian	62	Lentil	87	Passion fruit	112	Snake gourd		
13	Cabbage	38	Durians	63	Litchi/Lychee	88	Peach	113	Sorghum		
14	Capsicum	39	Eggplant	64	Longan	89	Peanuts	114	Soy bean		
15	cardamom	40	Enset	65	Longkong	90	Pepper	115	Soybean		
16	Carrot	41	Field pea	66	Luffa	91	Persimmon	116	Spinach		
17	Cashew	42	Finger millet	67	Mae	92	Pigeon pea	117	Squash		
18	Cassava	43	Flax	68	Maize	93	Pineapple	118	Sugarcane		
19	Castor bean	44	Flower plants	69	Mango	94	Plantain	119	Summer vegetables		
20	Chickpea	45	Garden-eggs	70	Mangosteens	95	Plum	120	Sunflower		
21	Chilies	46	Garlic	71	Medicinal herbs/plants	96	Pole bean	121	Sweet potato		
22	Chilli	47	Gingerly (sesame)	72	Melon	97	Potato	122	Tea		
23	cinnamon	48	Grape	73	Millet	98	Potato	123	Teak		
24	Citrus fruit	49	Grapefruit	74	Morning glory	99	Potatoes	124	Tef		
25	clove	50	Green gram	75	Mulberry	100	Pulses	125	Tobacco		

### 2.5.1. Growing Season 1

	Crop type	Planting month	Planting week	Harvest month	Harvest week	Plot area planted in crop (%)	Inter-cropped	Quantity harvested	Unit of mass	Quantity consumed by household	Quantity consumed by livestock	Harvest lost due to disease and pests	Quantity sold	To whom is output sold?	Price per unit of mass
Plot 1	2.5.1.1.1.1.	2.5.1.1.1.2.	2.5.1.1.1.3.	2.5.1.1.1.4.	2.5.1.1.1.5.	2.5.1.1.1.6.	2.5.1.1.1.7.	2.5.1.1.1.8.	2.5.1.1.1.9.	2.5.1.1.1.10.	2.5.1.1.1.11.	2.5.1.1.1.12.	2.5.1.1.1.13.	2.5.1.1.1.14.	2.5.1.1.1.15.
	2.5.1.1.2.1.	2.5.1.1.2.2.	2.5.1.1.2.3.	2.5.1.1.2.4.	2.5.1.1.2.5.	2.5.1.1.2.6.	2.5.1.1.2.7.	2.5.1.1.2.8.	2.5.1.1.2.9.	2.5.1.1.2.10.	2.5.1.1.2.11.	2.5.1.1.2.12.	2.5.1.1.2.13.	2.5.1.1.2.14.	2.5.1.1.2.15.
Plot 2	2.5.1.2.1.1.	2.5.1.2.1.2.	2.5.1.2.1.3.	2.5.1.1.1.4.	2.5.1.2.1.5.	2.5.1.2.1.6.	2.5.1.2.1.7.	2.5.1.2.1.8.	2.5.1.2.1.9.	2.5.1.2.1.10.	2.5.1.2.1.11.	2.5.1.2.1.12.	2.5.1.2.1.13.	2.5.1.2.1.14.	2.5.1.2.1.15.
	2.5.1.2.2.1.	2.5.1.2.2.2.	2.5.1.2.2.3.	2.5.1.1.2.4.	2.5.1.2.2.5.	2.5.1.2.2.6.	2.5.1.2.2.7.	2.5.1.2.2.8.	2.5.1.2.2.9.	2.5.1.2.2.10.	2.5.1.2.2.11.	2.5.1.2.2.12.	2.5.1.2.2.13.	2.5.1.2.2.14.	2.5.1.2.2.15.

### 2.5.2. Growing Season 2

Plot 1	2.5.2.1.1.1.	2.5.2.1.1.2.	2.5.2.1.1.3.	2.5.2.1.1.4.	2.5.2.1.1.5.	2.5.2.1.1.6.	2.5.2.1.1.7.	2.5.2.1.1.8.	2.5.2.1.1.9.	2.5.2.1.1.10.	2.5.2.1.1.11.	2.5.2.1.1.12.	2.5.2.1.1.13.	2.5.2.1.1.14.	2.5.2.1.1.15.
	2.5.2.1.2.1.	2.5.2.1.2.2.	2.5.2.1.2.3.	2.5.2.1.2.4.	2.5.2.1.2.5.	2.5.2.1.2.6.	2.5.2.1.2.7.	2.5.2.1.2.8.	2.5.2.1.2.9.	2.5.2.1.2.10.	2.5.2.1.2.11.	2.5.2.1.2.12.	2.5.2.1.2.13.	2.5.2.1.2.14.	2.5.2.1.2.15.
Plot 2	2.5.2.2.1.1.	2.5.2.2.1.2.	2.5.2.2.1.3.	2.5.2.1.1.4.	2.5.2.2.1.5.	2.5.2.2.1.6.	2.5.2.2.1.7.	2.5.2.2.1.8.	2.5.2.2.1.9.	2.5.2.2.1.10.	2.5.2.2.1.11.	2.5.2.2.1.12.	2.5.2.2.1.13.	2.5.2.2.1.14.	2.5.2.2.1.15.
	2.5.2.2.2.1.	2.5.2.2.2.2.	2.5.2.2.2.3.	2.5.2.1.2.4.	2.5.2.2.2.5.	2.5.2.2.2.6.	2.5.2.2.2.7.	2.5.2.2.2.8.	2.5.2.2.2.9.	2.5.2.2.2.10.	2.5.2.2.2.11.	2.5.2.2.2.12.	2.5.2.2.2.13.	2.5.2.2.2.14.	2.5.2.2.2.15.

### 2.5.3. Growing Season 3

Plot 1	2.5.3.1.1.1.	2.5.3.1.1.2.	2.5.3.1.1.3.	2.5.3.1.1.4.	2.5.3.1.1.5.	2.5.3.1.1.6.	2.5.3.1.1.7.	2.5.3.1.1.8.	2.5.3.1.1.9.	2.5.3.1.1.10.	2.5.3.1.1.11.	2.5.3.1.1.12.	2.5.3.1.1.13.	2.5.3.1.1.14.	2.5.3.1.1.15.
	2.5.3.1.2.1.	2.5.3.1.2.2.	2.5.3.1.2.3.	2.5.3.1.2.4.	2.5.3.1.2.5.	2.5.3.1.2.6.	2.5.3.1.2.7.	2.5.3.1.2.8.	2.5.3.1.2.9.	2.5.3.1.2.10.	2.5.3.1.2.11.	2.5.3.1.2.12.	2.5.3.1.2.13.	2.5.3.1.2.14.	2.5.3.1.2.15.
Plot 2	2.5.3.2.1.1.	2.5.3.2.1.2.	2.5.3.2.1.3.	2.5.3.1.1.4.	2.5.3.2.1.5.	2.5.3.2.1.6.	2.5.3.2.1.7.	2.5.3.2.1.8.	2.5.3.2.1.9.	2.5.3.2.1.10.	2.5.3.2.1.11.	2.5.3.2.1.12.	2.5.3.2.1.13.	2.5.3.2.1.14.	2.5.3.2.1.15.
	2.5.3.2.2.1.	2.5.3.2.2.2.	2.5.3.2.2.3.	2.5.3.1.2.4.	2.5.3.2.2.5.	2.5.3.2.2.6.	2.5.3.2.2.7.	2.5.3.2.2.8.	2.5.3.2.2.9.	2.5.3.2.2.10.	2.5.3.2.2.11.	2.5.3.2.2.12.	2.5.3.2.2.13.	2.5.3.2.2.14.	2.5.3.2.2.15.
Table Key	Choose from table	1. January; 2. February; 3. March; 4. April; 5. May; 6. June; 7. July; 8. August; 9. September; 10. October; 11. November; 12. December	1. 1 <sup>st</sup> week of month; 2. 2 <sup>nd</sup> week of month; 3. 3 <sup>rd</sup> week of month; 4. 4 <sup>th</sup> week of month	1. January; 2. February; 3. March; 4. April; 5. May; 6. June; 7. July; 8. August; 9. September; 10. October; 11. November; 12. December	1. 1 <sup>st</sup> week of month; 2. 2 <sup>nd</sup> week of month; 3. 3 <sup>rd</sup> week of month; 4. 4 <sup>th</sup> week of month	Percentage	1 = No; 2 = Yes	Number	1. Kilograms; 2. Pounds; 3. Other:  _____	Number	Number	Number	Number	1. Consumers; 2. Wholesaler; 3. Exporters; 4. Others	Local Currency unit/unit mass

**2.6. FERTILIZER, PESTICIDE AND SEED**

	Crop Type	Inorganic fertilizer applied	Inorganic fertilizer cost	Organic fertilizer applied	Organic fertilizer cost	Pesticide applied (powder)	Pesticide cost (powder)	Pesticide applied (liquid)	Pesticide cost (liquid)	Seed quantity bought	Seed cost	
<b>Season 1</b>	<b>Plot 1</b>	2.6.1.1.1.1.	2.6.1.1.1.2.	2.6.1.1.1.3.	2.6.1.1.1.4.	2.6.1.1.1.5.	2.6.1.1.1.6.	2.6.1.1.1.7.	2.6.1.1.1.8.	2.6.1.1.1.9.	2.6.1.1.1.10.	2.6.1.1.1.11.
		2.6.1.1.2.1.	2.6.1.1.2.2.	2.6.1.1.2.3.	2.6.1.1.2.4.	2.6.1.1.2.5.	2.6.1.1.2.6.	2.6.1.1.2.7.	2.6.1.1.2.8.	2.6.1.1.2.9.	2.6.1.1.2.10.	2.6.1.1.2.11.
	<b>Plot 2</b>	2.6.1.2.1.1.	2.6.1.2.1.2.	2.6.1.2.1.3.	2.6.1.1.1.4.	2.6.1.2.1.5.	2.6.1.2.1.6.	2.6.1.2.1.7.	2.6.1.2.1.8.	2.6.1.2.1.9.	2.6.1.2.1.10.	2.6.1.2.1.11.
		2.6.1.2.2.1.	2.6.1.2.2.2.	2.6.1.2.2.3.	2.6.1.1.2.4.	2.6.1.2.2.5.	2.6.1.2.2.6.	2.6.1.2.2.7.	2.6.1.2.2.8.	2.6.1.2.2.9.	2.6.1.2.2.10.	2.6.1.2.2.11.
<b>Season 2</b>	<b>Plot 1</b>	2.6.2.1.1.1.	2.6.2.1.1.2.	2.6.2.1.1.3.	2.6.2.1.1.4.	2.6.2.1.1.5.	2.6.2.1.1.6.	2.6.2.1.1.7.	2.6.2.1.1.8.	2.6.2.1.1.9.	2.6.2.1.1.10.	2.6.2.1.1.11.
		2.6.2.1.2.1.	2.6.2.1.2.2.	2.6.2.1.2.3.	2.6.2.1.2.4.	2.6.2.1.2.5.	2.6.2.1.2.6.	2.6.2.1.2.7.	2.6.2.1.2.8.	2.6.2.1.2.9.	2.6.2.1.2.10.	2.6.2.1.2.11.
	<b>Plot 2</b>	2.6.2.2.1.1.	2.6.2.2.1.2.	2.6.2.2.1.3.	2.6.2.1.1.4.	2.6.2.2.1.5.	2.6.2.2.1.6.	2.6.2.2.1.7.	2.6.2.2.1.8.	2.6.2.2.1.9.	2.6.2.2.1.10.	2.6.2.2.1.11.
		2.6.2.2.2.1.	2.6.2.2.2.2.	2.6.2.2.2.3.	2.6.2.1.2.4.	2.6.2.2.2.5.	2.6.2.2.2.6.	2.6.2.2.2.7.	2.6.2.2.2.8.	2.6.2.2.2.9.	2.6.2.2.2.10.	2.6.2.2.2.11.
<b>Season 3</b>	<b>Plot 1</b>	2.6.3.1.1.1.	2.6.3.1.1.2.	2.6.3.1.1.3.	2.6.3.1.1.4.	2.6.3.1.1.5.	2.6.3.1.1.6.	2.6.3.1.1.7.	2.6.3.1.1.8.	2.6.3.1.1.9.	2.6.3.1.1.10.	2.6.3.1.1.11.
		2.6.3.1.2.1.	2.6.3.1.2.2.	2.6.3.1.2.3.	2.6.3.1.2.4.	2.6.3.1.2.5.	2.6.3.1.2.6.	2.6.3.1.2.7.	2.6.3.1.2.8.	2.6.3.1.2.9.	2.6.3.1.2.10.	2.6.3.1.2.11.
	<b>Plot 2</b>	2.6.3.2.1.1.	2.6.3.2.1.2.	2.6.3.2.1.3.	2.6.3.1.1.4.	2.6.3.2.1.5.	2.6.3.2.1.6.	2.6.3.2.1.7.	2.6.3.2.1.8.	2.6.3.2.1.9.	2.6.3.2.1.10.	2.6.3.2.1.11.
		2.6.3.2.2.1.	2.6.3.2.2.2.	2.6.3.2.2.3.	2.6.3.1.2.4.	2.6.3.2.2.5.	2.6.3.2.2.6.	2.6.3.2.2.7.	2.6.3.2.2.8.	2.6.3.2.2.9.	2.6.3.2.2.10.	2.6.3.2.2.11.
<b>Table Key</b>	Choose from table	Kilograms	Local Currency unit/kg	Kilograms	Local Currency unit/kg	Kilograms	Local Currency unit/kg	Liters	Local Currency unit/kg	Kilograms	Local Currency unit/kg	

## 2.7. IRRIGATION

<b>2.7.0.1.</b>	Are all your crops exclusively rainfed?		1. No; 2. Yes
→ If respondent answered "Yes" to 2.7.0.1. go to section "2.8. FARM MACHINERY"			
<b>2.7.0.2.</b>	Irrigation system used on plots (i.e. the on-field system used for water distribution)		
<b>2.7.0.2.1.</b>	What is the primary type of irrigation system is used on Plot 1?		1. Gravity; 2. Sprinklers; 3. Drip system; 4. Other (specify)
<b>2.7.0.2.2.</b>	What is the primary type of irrigation system is used on Plot 2?		1. Gravity; 2. Sprinklers; 3. Drip system; 4. Other (specify)

### 2.7.1 Surface Water Quantity Applied

<b>2.7.1.0.1.</b>	Do you irrigate the crops you grow with surface water?		1. No; 2. Yes
→ If respondent answered "No" to 2.7.1.0.1. go to section "2.7.2..Groundwater Quantity Applied"			
<b>2.7.1.0.2.</b>	What is the source of the surface water?		1. Canal system; 2. Pond; 3.River or stream; 4.Lake

		Depth of inundation in field (average per irrigation)	Total number of irrigations applied	Irrigated area	Seasonal cost of surface irrigations
<b>Season 1</b>	<b>Plot 1</b>	2.7.1.1.1.1.	2.7.1.1.1.2.	2.7.1.1.1.3.	2.7.1.1.1.4.
	<b>Plot 2</b>	2.7.1.1.2.1.	2.7.1.1.2.2.	2.7.1.1.2.3.	2.7.1.1.2.4.
<b>Season 2</b>	<b>Plot 1</b>	2.7.1.2.1.1.	2.7.1.2.1.2.	2.7.1.2.1.3.	2.7.1.2.1.4.
	<b>Plot 2</b>	2.7.1.2.2.1.	2.7.1.2.2.2.	2.7.1.2.2.3.	2.7.1.2.2.4.
<b>Season 3</b>	<b>Plot 1</b>	2.7.1.3.1.1.	2.7.1.3.1.2.	2.7.1.3.1.3.	2.7.1.3.1.4.
	<b>Plot 2</b>	2.7.1.3.2.1.	2.7.1.3.2.2.	2.7.1.3.2.3.	2.7.1.3.2.4.
<b>Table Key</b>		Inches	Number	Land units as specified in 2.2.0.	Local currency unit/irrigation

## 2.7.2. Groundwater Quantity Applied

<b>2.7.2.0.1.</b>	Do you irrigate the crops you grow with groundwater?		1 = No, 2 = Yes
→ If respondent answered "No" to 2.7.2.0.1. go to section "2.8. FARM MACHINERY"			
<b>2.7.2.0.2.</b>	What is the source of the groundwater?		1. Own well; 2. Other's well; 3. Jointly owned well; 4. Own and other wells

		Depth of inundation in field (average per irrigation)	Total number of irrigations applied	Irrigated area	Seasonal cost of groundwater irrigations
<b>Season 1</b>	<b>Plot 1</b>	2.7.2.1.1.1.	2.7.2.1.1.2.	2.7.2.1.1.3.	2.7.2.1.1.4.
	<b>Plot 2</b>	2.7.2.1.2.1.	2.7.2.1.2.2.	2.7.2.1.2.3.	2.7.2.1.2.4.
<b>Season 2</b>	<b>Plot 1</b>	2.7.2.2.1.1.	2.7.2.2.1.2.	2.7.2.2.1.3.	2.7.2.2.1.4.
	<b>Plot 2</b>	2.7.2.2.2.1.	2.7.2.2.2.2.	2.7.2.2.2.3.	2.7.2.2.2.4.
<b>Season 3</b>	<b>Plot 1</b>	2.7.2.3.1.1.	2.7.2.3.1.2.	2.7.2.3.1.3.	2.7.2.3.1.4.
	<b>Plot 2</b>	2.7.2.3.2.1.	2.7.2.3.2.2.	2.7.2.3.2.3.	2.7.2.3.2.4.
<b>Table Key</b>		Inches	Number	Land units as specified in 2.2.0.	Local currency unit/irrigation

## 2.8. FARM MACHINERY

	Number	Who owns the equipment?	Price/item as new	Average lifespan of item
<b>1. Cutlass/machete</b>	2.8.1.1.	2.8.1.2.	2.8.1.3.	2.8.1.4.
<b>2. Hoe</b>	2.8.2.1.	2.8.2.2.	2.8.2.3.	2.8.2.4.
<b>3. File</b>	2.8.3.1.	2.8.3.2.	2.8.3.3.	2.8.3.4.
<b>4. Axe</b>	2.8.4.1.	2.8.4.2.	2.8.4.3.	2.8.4.4.
<b>5. Baskets</b>	2.8.5.1.	2.8.5.2.	2.8.5.3.	2.8.5.4.
<b>6. Weeder</b>	2.8.6.1.	2.8.6.2.	2.8.6.3.	2.8.6.4.
<b>7. Other light machinery:</b>	2.8.7.1	2.8.7.2	2.8.7.3	2.8.7.4
<b>8. Tractor</b>	2.8.8.1.	2.8.8.2.	2.8.8.3.	2.8.8.4.
<b>9. Plough</b>	2.8.9.1.	2.8.9.2.	2.8.9.3.	2.8.9.4.
<b>10. Trolley/Trailers</b>	2.8.10.1.	2.8.10.2.	2.8.10.3.	2.8.10.4.
<b>11. Thresher</b>	2.8.11.1.	2.8.11.2.	2.8.11.3.	2.8.11.4.
<b>12. Fodder cutting machine</b>	2.8.12.1.	2.8.12.2.	2.8.12.3.	2.8.12.4.
<b>Table Key</b>	Number	1. Household has ownership; 2. Jointly owned with other households/farm entities; 3. Hired for household or joint use	Local currency unit/item	Years

[Continued on next page] →

	<b>Number</b>	<b>Who owns the equipment?</b>	<b>Price/item as new</b>	<b>Average lifespan of item</b>
<b>13. Generator/diesel pumps (including groundwater pumps)</b>	2.8.13.1.	2.8.13.2.	2.8.13.3.	2.8.13.4.
<b>14. Spraying machines (chemical/fertilizer)</b>	2.8.14.1.	2.8.14.2.	2.8.14.3.	2.8.14.4.
<b>15. Harvester machine</b>	2.8.15.1.	2.8.15.2.	2.8.15.3.	2.8.15.4.
<b>16. Direct tillage machines</b>	2.8.16.1.	2.8.16.2.	2.8.16.3.	2.8.16.4.
<b>17. Other heavy machinery:</b>	2.8.17.1.	2.8.17.2.	2.8.17.3.	2.8.17.4.
<b>18. Bullocks</b>	2.8.18.1.	2.8.18.2.	2.8.18.3.	2.8.18.4.
<b>19. Mules</b>	2.8.19.1.	2.8.19.2.	2.8.19.3.	2.8.19.4.
<b>20. Other animal power:</b>	2.8.20.1.	2.8.20.2.	2.8.20.3.	2.8.20.4.
<b>Table Key</b>	Number	1. Household has ownership; 2. Jointly owned with other households/farm entities; 3. Hired for household or joint use	Local currency unit/item	Years

### 3. LIVESTOCK ACTIVITIES (to be completed only for RESPONDENTS WHO HAVE LIVESTOCK)

<b>3.0.</b>	Does your household own livestock, poultry or other farm animals?		1 = No, 2 = Yes
→ If respondent answered "No" to 3.0. go to section "4.GENERAL"			

#### 3.1. LIVESTOCK

Type	Number currently owned	Type of production system	Number animals born	Number of animals lost	Number of animals purchased	Purchase price (per animal)	Number of animals sold	Sale price (per animal)
<b>1. Cattle (for meat)</b>	3.1.1.1.	3.1.1.2.	3.1.1.3.	3.1.1.4.	3.1.1.5.	3.1.1.6.	3.1.1.7.	3.1.1.8.
<b>2. Cattle (for milk)</b>	3.1.2.1.	3.1.2.2.	3.1.2.3.	3.1.2.4.	3.1.2.5.	3.1.2.6.	3.1.2.7.	3.1.2.8.
<b>3. Breeding bulls</b>	3.1.3.1.	3.1.3.2.	3.1.3.3.	3.1.3.4.	3.1.3.5.	3.1.3.6.	3.1.3.7.	3.1.3.8.
<b>4. Buffaloes (for meat)</b>	3.1.4.1.	3.1.4.2.	3.1.4.3.	3.1.4.4.	3.1.4.5.	3.1.4.6.	3.1.4.7.	3.1.4.8.
<b>5. Buffaloes (for milk)</b>	3.1.5.1.	3.1.5.2.	3.1.5.3.	3.1.5.4.	3.1.5.5.	3.1.5.6.	3.1.5.7.	3.1.5.8.
<b>6. Breeding bulls (buffalo)</b>	3.1.6.1.	3.1.6.2.	3.1.6.3.	3.1.6.4.	3.1.6.5.	3.1.6.6.	3.1.6.7.	3.1.6.8.
<b>7. Goat</b>	3.1.7.1.	3.1.7.2.	3.1.7.3.	3.1.7.4.	3.1.7.5.	3.1.7.6.	3.1.7.7.	3.1.7.8.
<b>8. Sheep</b>	3.1.8.1.	3.1.8.2.	3.1.8.3.	3.1.8.4.	3.1.8.5.	3.1.8.6.	3.1.8.7.	3.1.8.8.
<b>9. Pigs</b>	3.1.9.1.	3.1.9.2.	3.1.9.3.	3.1.9.4.	3.1.9.5.	3.1.9.6.	3.1.9.7.	3.1.9.8.
<b>10. Oxen</b>	3.1.10.1	3.1.10.2.	3.1.10.3.	3.1.10.4.	3.1.10.5.	3.1.10.6.	3.1.10.7.	3.1.10.8.
<b>11. Chicken</b>	3.1.11.1	3.1.11.2.	3.1.11.3.	3.1.11.4.	3.1.11.5.	3.1.11.6.	3.1.11.7.	3.1.11.8.
<b>12. Duck</b>	3.1.12.1	3.1.12.2.	3.1.12.3.	3.1.12.4.	3.1.12.5.	3.1.12.6.	3.1.12.7.	3.1.12.8.
<b>13. Camel</b>	3.1.13.1	3.1.13.2.	3.1.13.3.	3.1.13.4.	3.1.13.5.	3.1.13.6.	3.1.13.7.	3.1.13.8.
<b>14. Yak</b>	3.1.14.1	3.1.14.2.	3.1.14.3.	3.1.14.4.	3.1.14.5.	3.1.14.6.	3.1.14.7.	3.1.14.8.
<b>15. Horses</b>	3.1.15.1	3.1.15.2.	3.1.15.3.	3.1.15.4.	3.1.15.5.	3.1.15.6.	3.1.15.7.	3.1.15.8.

<b>16. Other (specify):</b>	3.1.16.1	3.1.16.2	3.1.16.3	3.1.16.4	3.1.16.5	3.1.16.6	3.1.16.7	3.1.16.8
<b>Table Key</b>	Number	1. Extensive; 2. Intensive	Number	Number	Number	Local currency unit/ animal	Number	Local currency unit/ animal

### 3.2. LIVESTOCK PRODUCTS

Type	Quantity for own use	Quantity sold	Unit of measure	Price per unit
<b>Milk/Milk Products</b>				
<b>1. Milk</b>	3.2.1.1.	3.2.1.2.	3.2.1.3.	3.2.1.4.
<b>2. Cheese</b>	3.2.2.1.	3.2.2.2.	3.2.2.3.	3.2.2.4.
<b>3. Yogurt</b>	3.2.3.1.	3.2.3.2.	3.2.3.3.	3.2.3.4.
<b>4. Oil and fat</b>	3.2.4.1.	3.2.4.2.	3.2.4.3.	3.2.4.4.
<b>5. Curd and dried curd</b>	3.2.5.1.	3.2.5.2.	3.2.5.3.	3.2.5.4.
<b>6. Other milk product:</b>	3.2.6.1.	3.2.6.2.	3.2.6.3.	3.2.6.4.
<b>7. Kumiss</b>	3.2.7.1.	3.2.7.2.	3.2.7.3.	3.2.7.4.
<b>Meat</b>				
<b>8. Beef</b>	3.2.8.1.	3.2.8.2.	3.2.8.3.	3.2.8.4.
<b>9. Sheep</b>	3.2.9.1.	3.2.9.2.	3.2.9.3.	3.2.9.4.
<b>10. Goat</b>	3.2.10.1.	3.2.10.2.	3.2.10.3.	3.2.10.4.
<b>11. Pigs</b>	3.2.11.1.	3.2.11.2.	3.2.11.3.	3.2.11.4.
<b>12. Chicken</b>	3.2.12.1.	3.2.12.2.	3.2.12.3.	3.2.12.4.
<b>13. Camel</b>	3.2.13.1.	3.2.13.2.	3.2.13.3.	3.2.13.4.
<b>14. Yak</b>	3.2.14.1.	3.2.14.2.	3.2.14.3.	3.2.14.4.

<b>15. Horse</b>	3.2.15.1.	3.2.15.2.	3.2.15.3.	3.2.15.4.
<b>16. Other (please specify)</b>	3.2.16.1.	3.2.16.2.	3.2.16.3.	3.2.16.4.
<b>Other Products</b>				
<b>17. Eggs</b>	3.2.17.1.	3.2.17.2.	3.2.17.3.	3.2.17.4.
<b>18. Wool</b>	3.2.18.1.	3.2.18.2.	3.2.18.3.	3.2.18.4.
<b>19. Leather</b>	3.2.19.1.	3.2.19.2.	3.2.19.3.	3.2.19.4.
<b>20. Cashmere</b>	3.2.20.1.	3.2.20.2.	3.2.20.3.	3.2.20.4.
<b>21. Skin</b>	3.2.21.1.	3.2.21.2.	3.2.21.3.	3.2.21.4.
<b>22. Other:</b> _____	3.2.22.1.	3.2.22.2.	3.2.22.3.	3.2.22.4.
<b>Table Key</b>	Number	Number	1. kg/year; 2. Liters/year; 3. Dozens/year; 4. Other (specify): _____	Local currency unit/ unit of measure

### 3.3. LABOR FOR LIVESTOCK

<b>3.3.0.</b>	Please indicate the unit of time for wage rate	1. Hourly, 2. Daily, 3. Weekly, 4. Monthly, 5. Seasonal
---------------	--	---

	<b>Herding</b>				<b>Milking</b>				<b>Shearing</b>				<b>All Other Activities</b>			
	Number employed	Average hours worked per week	Total Weeks employed	Wage	Number employed	Average hours worked per week	Total weeks employed	Wage	Number employed	Average hours worked per week	Total weeks employed	Wage	Number employed	Average hours worked per week	Total weeks employed	Wage
<b>Household Adults</b>	3.3.1.1.	3.3.1.2.	3.3.1.3.		3.3.1.5.	3.3.1.6.	3.3.1.7.		3.3.1.9.	3.3.1.1.	3.3.1.11.		3.3.1.13.	3.3.1.14.	3.3.1.15.	
<b>Household Children</b>	3.3.2.1.	3.3.2.2.	3.3.2.3.		3.3.2.5.	3.3.2.6.	3.3.2.7.		3.3.2.9.	3.3.2.1.	3.3.2.11.		3.3.2.13.	3.3.2.14.	3.3.1.15.	
<b>Hired</b>	3.3.3.1.	3.3.3.2.	3.3.3.3.	3.3.3.4.	3.3.3.5.	3.3.3.6.	3.3.3.7.	3.3.3.8.	3.3.3.9.	3.3.3.10.	3.3.3.11.	3.3.3.12.	3.3.3.13.	3.3.3.14.	3.3.1.15.	3.3.1.16.
<b>Table Key</b>	Number	Hours per week	Weeks	Local currency unit/hour	Number	Hours per week	Weeks	Local currency unit/hour	Number	Hours per week	Weeks	Local currency unit/hour	Number	Hours per week	Weeks	Local currency unit/hour

#### 4. GENERAL INFORMATION (to be completed for ALL RESPONDENTS)

##### 4.1. LAND VALUE (value of farm for farmers; value of livestock-related property for herders)

4.1.1.	Does your property include any buildings, equipment and livestock?		1. No; 2. Yes
4.1.2.	<b>Excluding</b> the buildings, equipment and livestock what is its approximate value of the land?		Local currency unit
4.1.3.	<b>Including</b> the land, buildings, equipment and livestock, what is the approximate value of this property?		Local currency unit

##### 4.2. ANCILLIARY COSTS

Can you please tell us the **TOTAL COSTS OF THE FOLLOWING ACTIVITIES** (per year).

<b>4.2.1. Crops Harvested</b>			
4.2.1.1.	Transport costs		Local currency unit
4.2.1.2.	Packing/marketing		Local currency unit
4.2.1.3.	Storage costs		Local currency unit
4.2.1.4.	Post-harvest losses		Local currency unit
4.2.1.5.	All other costs		Local currency unit
<b>4.2.2. Livestock</b>			
4.2.2.1.	Cost for preparing and transporting hay and fodder		Local currency unit
4.2.2.2.	Slaughtering cost		Local currency unit
4.2.2.3.	Cost for smearing		Local currency unit
4.2.2.4.	Cost for moving from one place to another		Local currency unit
4.2.2.5.	Cost for purchasing hay and fodder		Local currency unit
4.2.2.6.	Cost for selling and transporting the products to the market		Local currency unit
4.2.2.7.	Veterinary service/product cost		Local currency unit
4.2.2.8.	Hired labor cost		Local currency unit

<b>4.2.2.9.</b>	Storage cost		Local currency unit
<b>4.2.2.10.</b>	Package and packing cost		Local currency unit
<b>4.2.2.11.</b>	Livestock insurance cost		Local currency unit
<b>4.2.2.12.</b>	All other costs		Local currency unit

#### 4.3. FARM WAGE RATES

	Hired Labor for Farm			Hired Labor for Livestock			Table Key
	Adult Male	Adult Female	Children	Adult Male	Adult Female	Children	
<b>Average wage/day</b>	4.3.1.1.1.	4.3.1.1.2.	4.3.1.1.3.	4.3.2.1.1.	4.3.2.1.2.	4.3.2.1.3.	Local currency unit/day
<b>Monthly amount of in kind payments</b>	4.3.1.2.1.	4.3.1.2.2.	4.3.1.2.3.	4.3.2.2.1.	4.3.2.2.2.	4.3.2.2.3.	Local currency unit/month
<b>Type of in kind payment</b>	4.3.1.3.1.	4.3.1.3.2.	4.3.1.3.3.	4.3.2.3.1.	4.3.2.3.2.	4.3.2.3.3.	1. Share of crop or livestock; 2. Fixed payment; 3. Exchanged labor

#### 4.4. BUILDINGS

	Purpose	Area (square meters)	Value
<b>Building 1</b>	4.4.1.1.	4.4.1.2.	4.4.1.3.
<b>Building 2</b>	4.4.2.1.	4.4.2.2.	4.4.2.3.
<b>Building 3</b>	4.4.3.1.	4.4.3.2.	4.4.3.3.
<b>Building 4</b>	4.4.4.1.	4.4.4.2.	4.4.4.3.
<b>Building 5</b>	4.4.5.1.	4.4.5.2.	4.4.5.3.
<b>Building 6</b>	4.4.6.1.	4.4.6.2.	4.4.6.3.
<b>Table Key</b>	1. Storage of crops; 2. Shelter for livestock; 3. Greenhouse; 4. Farmhouse; 5. Living quarters for workers; 6. Equipment storage; 8. Storage for fodder and hay; 9. Other (specify); 10. Ger and house for the herder; 11. Extra ger and house	Square meters	Local currency unit

#### 4.5. TRANSPORTATION

<b>4.5.1.</b>	<b>Farm</b>		
<b>4.5.1.1.</b>	How far must you travel to <b>sell</b> your harvest (distance)?		Kilometers
<b>4.5.1.2.</b>	How far must you travel to <b>sell</b> your harvest (time)?		Hours
<b>4.5.1.3.</b>	What transport do you use to get your output to the market?		1. Walk; 2. Animal; 3. Cart; 4.Truck or other motorized vehicle; 5. Other (specify)
<b>4.5.1.4.</b>	How far must you travel to buy your inputs (distance)?		Kilometers
<b>4.5.1.5.</b>	How far must you travel to buy your inputs (time)?		Hours
<b>4.5.2.</b>	<b>Livestock</b>		
<b>4.5.2.1.</b>	How far must you travel to <b>sell</b> your livestock/livestock product (distance)?		Kilometers
<b>4.5.2.2.</b>	How far must you travel to <b>sell</b> your livestock/livestock product (time)?		Hours
<b>4.5.2.3.</b>	What transport do you use to get your output to the market?		1. Walk; 2. Animal; 3. Cart; 4.Truck or other motorized vehicle; 5. Other (specify)
<b>4.5.2.4.</b>	How far must you travel to buy your inputs (distance)?		Kilometers
<b>4.5.2.5.</b>	How far must you travel to buy your inputs (time)?		Hours

#### 4.6. ORGANIZATIONAL AFFILIATIONS

<b>4.6.1.</b>	Do you belong to any organization that helps sell farm/livestock outputs?		1 = No, 2 = Yes
<b>4.6.2.</b>	Do you belong to any organization that helps provide inputs including water, fertilizer, seeds, veterinary service, feed, etc.?		1 = No, 2 = Yes

#### 4.7 EXTENSION SERVICE

<b>4.7.0.</b>	Have you utilized any kind of advisory or extension service that provides technical farm and/or livestock input?		1 = No, 2 = Yes
→ If respondent answered "No" to 4.7.0. go to section "4.8. HOUSEHOLD INCOME"			
<b>4.7.1.1.</b>	Do you get information and advice from extension workers for crop production?		1 = No, 2 = Yes
	→ If respondent answered "No" to 4.7.1.1. go to 4.7.2.1.		

4.7.1.2.	How many times do they visit you per year?		Number
4.7.1.3.	Do you pay for receiving extension advice for crop production?		1 = No, 2 = Yes
→ If respondent answered "No" to 4.7.1.3. go to 4.7.1.5.			
4.7.1.4.	How much do you pay annually for extension advice related to <b>crop production</b> ?		Local currency unit
4.7.1.5.	Which of the following provided extension advice:		
4.7.1.5.1.	Government agency (national)		1 = No, 2 = Yes
4.7.1.5.2.	Government agency (regional/local)		1 = No, 2 = Yes
4.7.1.5.3.	Cooperatives		1 = No, 2 = Yes
4.7.1.5.4.	Private extension groups		1 = No, 2 = Yes
4.7.1.5.5.	NGO		1 = No, 2 = Yes
4.7.1.5.6.	Input companies		1 = No, 2 = Yes
4.7.1.5.7.	Marketing companies		1 = No, 2 = Yes
4.7.1.5.8.1.	Other		1 = No, 2 = Yes
4.7.1.5.8.2.	Other name: _____		Text
4.7.2.1.	Do you get information and advice from extension workers for livestock production?		1 = No, 2 = Yes
	→ If respondent answered "No" to 4.7.2.1. go to 4.7.3.		
4.7.2.2.	How many times do they visit you per year?		Number
4.7.2.3.	Do you pay for receiving extension advice for livestock production?		1 = No, 2 = Yes
→ If respondent answered "No" to 4.7.2.3. go to 4.7.2.5.			
4.7.2.4.	How much do you pay annually for extension advice related to <b>livestock production</b> ?		Local currency unit
4.7.2.5.	Which of the following provided extension advice:		
4.7.2.5.1.	Government agency (national)		1 = No, 2 = Yes
4.7.2.5.2.	Government agency (regional/local)		1 = No, 2 = Yes

4.7.2.5.3.	Cooperatives		1 = No, 2 = Yes
4.7.2.5.4.	Private extension groups		1 = No, 2 = Yes
4.7.2.5.5.	NGO		1 = No, 2 = Yes
4.7.2.5.6.	Input companies		1 = No, 2 = Yes
4.7.2.5.7.	Marketing companies		1 = No, 2 = Yes
4.7.2.5.8.1.	Other		1 = No, 2 = Yes
4.7.2.5.8.2.	Other name: _____		Text
4.7.3.	If you get any technical assistance and advice from other sources apart from official extension workers, from where do you receive the necessary information?		
4.7.3.1.	Media		1 = No, 2 = Yes
4.7.3.2.	Neighboring farmers		1 = No, 2 = Yes
4.7.3.3.	Shopkeepers		1 = No, 2 = Yes
4.7.3.4.1.	Other		1 = No, 2 = Yes
4.7.3.4.2.	Other name: _____		Text
4.7.3.5.	From other experienced herders		

#### 4.8. HOUSEHOLD INCOME

4.8.1.	What is your total household net income <b>from ALL activities</b> in 2012)?		Local currency unit
4.8.2.	In 2012, what <b>percent</b> of total household income is from <i>farm/livestock</i> activities?		Percentage
4.8.3.	If 2012 was not a normal weather year, what is your average <b>total</b> net household income in a <b>normal year</b> ?		Local currency unit
4.8.4.	In a <b>normal average year</b> , what <b>percent</b> of total household income is from <i>farm/livestock</i> activities?		Percentage
4.8.5.	How much <b>INCOME TAX</b> has your household paid over the period from July 1st 2011 to June 30th 2012?		Local currency unit
4.8.6.	How much <b>PROPERTY TAX</b> has your household paid over the period from July 1st 2011 to June 30th 2012?		Local currency unit
4.8.7.	Over the last ten years, have you ever borrowed funds for farming/livestock?		1 = No, 2 = Yes

→ If respondent answered "No" to 4.8.7. go to section "5. TRACKING SHEET"

<b>4.8.8.</b>	Have you borrowed from the following:		
<b>4.8.8.1.</b>	Relatives		1 = No, 2 = Yes
<b>4.8.8.2.</b>	Commercial banks		1 = No, 2 = Yes
<b>4.8.8.3.</b>	Farmer associations/co-operatives		1 = No, 2 = Yes
<b>4.8.8.4.</b>	Thrift and loan society		1 = No, 2 = Yes
<b>4.8.8.5.</b>	Friends		1 = No, 2 = Yes
<b>4.8.8.6.1.</b>	Other		1 = No, 2 = Yes
<b>4.8.8.6.2.</b>	Other name: _____		Text

## 5. TRACKING SHEET

This section **must** be completed after the interview is completed. Given the importance of the following data for mapping and tracking purposes, please ensure it is filled out accurately.

5.1.	Name of interviewer		
5.2.	Date of interview	/ /	DD/MM/YYYY
5.3.	Time interview began ( <i>Interviewer: use 24 hour clock</i> )	:	HH:MM
5.4.	Time interview ended ( <i>Interviewer: use 24 hour clock</i> )	:	HH:MM
5.5.	Country		Country code
5.6.	Province		State code
5.7.	District		District code
5.8.	Village		Village code
5.9.	Household ID		Self generated two digit number (n <sup>th</sup> household being interviewed on day)
5.10.	<b>UNIQUE CODE FOR SURVEY RESPONDENT</b>	[ ][ ][ ][ ][ ]	Please note that this code is generated from codes used for 5.5. to 5.9.: [Country code][State code][District code][Village code][Household number]
5.11.	GPS Latitude		GPS latitude coordinate reading
5.12.	GPS Longitude		GPS longitude coordinate reading
5.13.	Altitude		Meters above sea level
5.14.	Interviewer comments:		