

SIFOR Survey Questionnaires (farmer household)

Interviewer Name: _____ Sex: (M/F) _____ Phone number: _____ Date and time of interview _____

Section A: Respondent Information

I would like to begin by requesting your contact information		
A1	What is your full name? What is your relationship to the HH head?	
A2	Administrative Village name	
A3	Natural village name	
A4	How old are you?	
A5	How many members are in your household?	
A6	Contact phone numbers:	
A7	Email address:	
A8	GPS coordinates (If relevant)	
A9	Relative name and contact information (if required)	

【Code 3】 : 1= Crop production & sales; 2= Livestock production & sales; 3= Milk production and sales; 4=Labor in urban areas; 5=Agricultural laboring; 6= Employment in the village surroundings; 7=Small business; 8= Petty trade, e.g. market stalls; 9=Employment in tourism; 10=Housework; 11=Rent out the property, e.g. Land, equipment, housing and so on; 12= other, please specify

Section C: Main Livelihood Activity & Trends

1. Total incomes

Year	Total annual incomes of HH (estimated)	livelihood activity – 1 st most important		livelihood activity – 2 nd most important		livelihood activity – 3 rd most important	
		Code 1	Amount	Code 1	Amount	Code 1	Amount
	C1	C2	C3	C4	C5	C6	C7
2012							
2007							
2002							

Code 1: 1= Crop production & sales; 2= Livestock production & sales; 3= Milk production and sales; 4=Labor in urban areas; 5=Agricultural laboring; 6= Employment in the village surroundings; 7=Small business; 8= Petty trade, e.g. market stalls; 9=Employment in tourism; 10=Housework; 11=Rent out the property, e.g. land, equipment, housing and so on; 12= other, please specify

C8.	Please indicate the 3 most important livelihood activities in order of importance and in terms of <i>income generation</i> .	1. [] 2. [] 3. []
C9.	Please indicate the 3 most important livelihood activities in order of importance and in terms of <i>household food security</i> .	1. [] 2. [] 3. []
C10.	Does the HH have any savings? Yes/No. If yes, indicate how much. (C10 is Optional)	

2. Total household consumption/spending

	Total annual spending of HH (estimated)	the 1 st important		the 2 nd important		the 3 rd important	
		code	Amount	code	Amount	code	Amount
	C11	C12	C13	C14	C15	C16	C17
2012							
2007							
2002							

Code: 1=Food; 2=Interpersonal communication cost; 3=Education; 4=Health; 5=Clothing; 6=Agriculture means of production, e.g. seeds, pesticides, chemical fertilizer; 7=Transport, 8= Housing, 9= other, please specify;

Section D: Household Characteristics, infrastructure and assets
1. Cooking fuel and water sources

Questionnaire			Year		
			2012	2007	2002
What type of fuel does your household primarily use for cooking?	Code 1	D1			
If multiple sources are used, give % of use of each in a year.	1 st type of fuel, %	D2			
	2 nd type of fuel, %	D3			
	3 rd type of fuel, %	D4			
If the type of fuel has changed between 2002 and 2012, please describe its reason	description	D5			
What is the main source of drinking water for your household?	Code 2	D6			
If multiple sources are used, give % of use of each in a year.	1 st type of drinking water source, %	D7			
	2 nd type of drinking water source, %	D8			
	3 rd type of drinking water source, %	D9			
Who collects the water?	Code 3	D10			
If the main source of drinking water has changed between 2002 and 2012, please describe the reason	description	D11			
What is the main source of water for washing in your household?	description	D12			
What is the main source of water for livestock in your household?	description	D13			
What is the main source of water for irrigation in your household?	description	D14			
Code 1	Code 2	Code 3			
1. Electricity 2. Gas (GLP) 3. Natural gas 4. Kerosene 5. Carbon/charcoal 6. Firewood 7. fire-damp 8. Other _____ 9. N/A	1. Tap (inside residence/yard/plot) 2. Tap (public) 3. Private Hand pump/well 4. Public hand Pump/well 5. River 6. Pond 7. Spring 8. Stream (India: 8a dhara, 8b gadhera) 9. Other, specify:	1=Head of Household; 2=Spouse of head of household; 3=Father of head of household; 4=Mother of head of household; 11=Elder son; 12=Elder son's wife; 13=Second son; 14=Second son's wife; 15=Third son; 16=Third son's wife; ; 21=Elder daughter; 22=Second daughter; 23=Third daughter; 31=Grandson; 32=Granddaughter; 99=other, please specify			

2. Household Characteristics:

	Questionnaire	Code	Answer
D15	The house is predominately made up of what material?	1. Brick 2. Stone 3. Adobe 4. Stone and mud 5. Wood 6. Concrete 7. Tin roof 8. Other _____	
D16	When was the house built?	Year	
D17	How big is the house?	m ² (Square meter) 1. Small (25 m ² or less) 2. Medium (over 25- 100 m ²) 3. Large (over 100 m ²)	
D18	How many rooms does it have?	1. 1-2 rooms 2. 3-5 rooms 3. More than 5 rooms	
D19	Is it traditional architectural style?	1. Yes 2. No 3. Mix	
D20	Among the following items, which ones does your household own?	1. Shower 2. Heater 3. Refrigerator 4. Washing machine 5. Automobile 6. Electric Cars/ Motorcycle 7. TV cable or satellite dish 8. Home phone 9. Mobil phone 10. Computer 11. Internet 12. Biogas unit 13. Smokeless chulha 14. Solar appliances 15. Toilet 16. Bath	
D21	Does the house have a separate kitchen?	1. Yes 2. No	
D22	Does the kitchen have ventilation?	1. Yes 2. No	

3. Agricultural Machinery and Equipment

	Equipment (including bullocks & small hand tools)	Date of purchase	1=Purchased Separately 2=Purchase with others 3=Purchase collectively; 4 = Rented/hired 5= Borrowed 6= Donated 7 = Remittance	Your amount spent by HH	Who is the main user of the equipment in the HH
	D23	D24	D25	D26	D27
1					
2					
3					
4					
5					
6					
7					

4. Land Ownership and Type

Year	Land that you own				Land that you rent from other individuals				Land that you rent to other individuals			
	Rain fed lands	Irrigated Land	Land not being cultivated (abandoned, not fallow land)	Mountain or forest land (not registered)	Rain fed lands	Irrigated Land	Uncultivated land (abandoned)	Mountain land (not registered)	Rain fed lands,	Irrigated Land	Uncultivated land (abandoned)	Mountain land (not registered)
Unit	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha
	D28	D29	D30	D31	D32	D33	D34	D35	D36	D37	D38	D39
2012												
2007												
2002												

D40: Who in the family owns the land (male/female)? ---Code 1

【Code 1】 : 1=Head of Household; 2=Spouse of head of household; 3=Father of head of household; 4=Mother of head of household; 11=Elder son; 12=Elder son's wife; 13=Second son; 14=Second son's wife; 15=Third son; 16=Third son's wife; ;

21=Elder daughter; 22=Second daughter; 23=Third daughter;

31=Grandson; 32=Granddaughter ;

99=other, please specify

5. Forest Land trends¹

Questionnaire	Code		Answer
Has your forest land size changed in the latest 10 years?	1. increased; 2. decreased; 3. No Changed	D41	
If it has changed, please describe its reason	Description	D42	
Types of planting trees	1=artificial cultivation; 2=natural growth; 3= artificial cultivation combined with natural growth;	D43	
List 3 major trees by ranking	description	D44	
Has the species of trees changed in the latest 10 years?	1. Yes 2. No	D45	
If the species of trees has changed, please describe its changes	description	D46	
The main varieties of trees	1= native/indigenous species; 2=exotic species; 3= invasive species	D47	
Has the role of the forest in supporting food security changed in the last 10 years?	1. Increased; 2. Decreased; 3. No Change	D48	

¹In India/C. Himalayas, there are no private forests so this section will be moved to the community survey, covering community forests, civil forests and protected forests with rights and concessions to people. These are the 3 categories for India.

Section E: Agricultural production

1. Agricultural production

	Crop	area	Yield per hectare per year (grain/root part).							Biomass (eg. stalk, husk, bran)
				Self consumption	Feed for livestock (from grain/root)	To market or sale to neighbors	price	Other Use	percentage	Biomass for livestock feed
	Code 1	ha	Kg/yr	% (approx.)	%	%	¥/Kg	Code 2	%	Kg/yr
	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Code 1: 1=Maize; 2=Rice; 3=Wheat; 4=Soy Bean; 5=Sugar Cane; 6=Cassava; 7=Peanut; 8= Potatoes; 9= Pulses; 10= Millets; 11= Vegetables; 12 = Spices; 13= other, please specify

Code 2: 1=Gift; 2=Seed; 3= Exchange/barter; 4 = other, please specify

2. Crop planting

List 2 major food crops by ranking

2012					2007					2002				
Crop	Variety type	Area	Yield/ha	Biomass (kg/ha)	Crop	Variety type	Area	Yield/ha	Biomass (kg/ha)	Crop	Variety type	Area	Yield/ha	Biomass(kg/ha)
Code 1	Code2	ha	Kg		Code 1	Code2	ha	Kg		Code 1	Code2	ha	Kg	
E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	E23	E24	E25
	1													
	2													
	3													
	1													
	2													
	3													

Code 1: 1=Maize; 2=Rice; 3=Wheat; 4=Soy Bean; 5=Sugar Cane; 6=Cassava; 7=Peanut; 8= Potatoes; 9= Pulses; 10= Millets; 11= Vegetables; 12 = Spices; 13= other, please specify

Code 2: 1=Landraces; 2= Introduced improved varieties; 3=Hybrid;-

Note: Landraces: variety has grown for more than 10 years and can keep seed for next season.

Introduced improved Varieties: variety introduced less than 10 years and can keep seed for next season.

Hybrid: Introduced variety can not keep seed for next season, has to buy new seed every year.

3. Annual cropping system and changes in 20 years

	Questionnaire		2012	2002	1992	Reasons for change
cropping patterns in first crop season in a year	Please list the major crop you planted in first season	E26				
	Please list the crop pattern adopted: intercropping; mixed cropping; or rotational cropping	E27				
	Please list the major variety type used (use Code 2, E12)	E28				
	Please list the land type used (1= rainfed; 2= irrigated; 3= forest)	E29				
	Time period of the first crop season(e.g. Feb to July..)	E30				
cropping patterns in second crop season in a year	Please list the crop that you planted	E31				
	Please list the crop pattern adopted: intercropping; mixed cropping; or rotational cropping	E32				
	Please list the major variety type used (use Code 2, E12)	E33				
	Please list the land type used (1= rainfed; 2= irrigated; 3= forest)	E34				
	Time period of the second crop season(e.g. July to Nov..)	E35				
cropping patterns in third crop season in a year	Please list the crop that you planted	E36				
	Please list the crop pattern and intercropping adopted	E37				
	Please list the major variety type used	E38				
	Please list the land type used	E39				
	Time period of the third crop season (e.g. Dec to Feb..)	E40				

Section F: Livestock production

1. Livestock situation in 2012

	Live stock s	Local variety	Breeding Stock	Livestock production of 2012	Milk production in 2012	Other products (eg. meat)	Self consumption	To market	Income	Other use	Percentage
	Code 1	%	NO.	NO.	liters	Quantity	%	%	¥	Code 2	%
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
1											
2											
3											
4											
5											
6											

Code 1: 1=Pig; 2=Chicken; 3=Duck; 4=Geese; 5=Cow; 6= Bull; 7 = Buffalo; 8= Goat; 9=Sheep; 10=Horse/ Donkey/ Mule; 11= other, please specify

Code 2: 1=Animal Power; 2=Gift; 4=Meat; 5= other, please specify;

2. Livestock situation in 2007 and 2002

	2007							2002						
	Live stocks	Local variety	Livestock production of 2007	Milk production in 2007	Self consumption	To market	Other Use, percentage	Live stocks	Local variety	Livestock production of 2002	Milk production in 2002	Self consumption	To Market	Other Use, percentage
	Code 1	%	No.	liters	%	%	Code 2, %	Code 1	%	No.	liters	%	%	Code 2, %
	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25
1														
2														
3														
4														
5														
6														
7														
8														
9														

Code 1: 1=Pig; 2=Chicken; 3=Duck; 4=Geese; 5=Cow; 6= Bull; 7 = Buffalo; 8= Goat; 9=Sheep; 10=Horse/ Donkey/ Mule;

11= other, please specify. **Include the quantity of each alongside the code number if relevant/useful**

Code 2: 1=Animal Power; 2=Gift; 3= Milk; 4= Meat; 5= other, please specify;

Section G: Food Security

Questionnaire	Code	Answer		
Approximately what quantity of agricultural production is dedicated to household consumption and what quantity is dedicated to the market?	G1	Household Consumption: _____kg		
	G2	Barter/exchange _____kg		
	G3	Sales / Market: _____kg		
How many meals does your household usually have per day?		Household categories	Number of meals	
	G4	MEN		
	G5	WOMEN		
	G6	BOYS		
	G7	GIRLS		
In the past 30 days has your household ever had fewer meals than this usual number?	G8	1. Yes 2. No		
If yes, how many days?	G9	Number _____		
In the past 30 days, how many times did the household consume the following?		Household member categories	Home grown	Sourced from market
	G10	Men		
	G11	Women		
	G12	Boys		
	G13	Girls		
Which are the preferred foods and which are the less preferred foods		Household member Categories	Preferred Food	Less Preferred Food
	G14	Men		
	G15	Women		
	G16	Boys		
	G17	Girls		
In the past 30 days, has the household consumed less preferred foods?			Frequency, Code 1	
	G18	Men		
	G19	Women		
	G20	Boys		
	G21	Girls		
In the past 30 days, have you reduced	G22	1 = Yes		

the quantity of food served to men in this household?		2 = No	
In the past 30 days, have you reduced the quantity of food served to women in this household?	G23	1 = Yes 2 = No	
In the past 30 days, have you reduced the quantity of food served to children in this household?			Frequency, Code 1
	G24	Boys	
	G25	Girls	
In the past 30 days, have members of this household skipped meals? Code 1	G26		
Who are they? 1= mother, 2=father, 3=grand mother, 4=girl 5=boy	G27		
In the past 30 days, have members of this household skipped meal for a whole day? Code 1	G28		
Who are they? 1= mother, 2=father, 3=grand mother, 4=girl 5=boy	G29		
How do you compare the overall economic situation of the household with one year ago? Code 2	G30		
How do you compare the overall economic situation of the community with one year ago? Code 2	G31		
How does this household compare with the others in this community? Code 2	G32		

Code 1: 1= Never; 2= Rarely(once); 3= From time to time (2-3) times; 4= Often (5 or more times);

Code 2: 1= Much worse now; 2= A little worse now; 3= Same; 4=A little better now; 5=Much better now; 6=Don't know;

G33 What are the typical coping strategies within your household during periods of insufficient food and who participates in them?

	Coping strategy	Household Members Who Participate					
		Men	Women	Boys	Girls	Elderly	Whole HH
G34	Reduction in quantity of food eaten						
G35	Eating less preferred foods						
G36	Skipping meals						
G37	Additional work						
G38	Loans of food						
G39	Loans of money						
G40	Other (specify)						

G41. How important to you is food self-production and sufficiency: _____

1= Very important; 2= important; 3=slightly important; 4= not important.

Section H: Agricultural Biodiversity

1. Which crops and varieties were lost from your farm in the last 30 years?

	01. Crop name	02. Year Last Harvested	03. Traditional or Introduced?	04. Reason for Loss
H1.1				
H1.2				
H1.3				
H1.4				
	Crop & Variety name			
H2.1				
H2.2				
H2.3				
H2.4				
	Food crop wild relatives			
H3.1				
H3.2				
H3.3				
	Wild food plants			
H4.1				
H4.2				
H4.3				

2. Which new crops and varieties were introduced in your farm in the last 30 years?

	01. Crop name	02. Type (cash or food)	03. Year Introduced	04. Explanation of origin/seed source (Code 1)
H5.1				
H5.2				
H5.3				
H5.4				
	Crop and Variety name	Type (improved or hybrid)		
H6.1				

H6.2				
H6.3				
H6.4				
	Food crop wild relatives			
H7.1				
H7.2				
H7.3				
	Wild food plants			
H8.1				
H8.2				
H8.3				

Seed Source, Code 1

- 1a.=Self improved
- 1b. = Self saved
- 2=community improved
- 3=Purchases
- 4=Exchanged with other farmers in the same community
- 5= Exchanged with farmers from other community
- 6=Obtained from relatives (from mother side?)
- 7=Gifts& Remittances,
- 8=local market
- 9=local extension station
- 10=Barter markets,
- 11=NGO Assistance (Direct or voucher)
- 13=Food aid grain,
- 14= Gov Input Program,
- 15=Private Firms (Contract)
- 16= Public research institution e.g. university, research organizations
- 17= Other, specify

3. Who decides the crop varieties to be grown in any season?

	Crop	Decision-Maker Within HH for home sourced seeds	Decision-Maker Within HH for market sourced seeds
H9	cereal (Maize, Rice, wheat, barley)		
H10	Cereal (small grain, eg. millet, buckwheat)		

H11	legumes (g/nuts, R/nuts, peanuts)		
H12	Potato (and sweet potato)		
H13	cash crops(tobacco, cotton, sugarcane cassava....)		
H14	Vegetables		
H15	Fruits		
H16	Spices		
Code: 1=father; 2=mother; 3=both (mother & father) ; 4. elder; 5=children; 6= other, please specify;			

H17.	What risk aversion strategies do you practice in case one crop fails or there is a shift in planting seasons (planting time elapses)?	1. _____ 2. _____ 3. _____ 4. _____ 5. Other _____
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H18. How much crop diversity is maintained by your Household today?

H.18.1. What is the total number of different crops planted by your HH?

H.18.2. How many different varieties of each crop are planted?

H.18.3. What is the approximate size of the area planted with each crop variety? 1 = half of the cultivated farmland; 2= a quarter of the cultivated land; 3 = less than a quarter (ie. a small area); 4 = a small area in the home garden; 5 = other (eg. the whole farm). For inter-cropping or mixed cropping, please estimate the area planted for each variety (eg. 2 varieties planted on half the farm land = a quarter of the farm for each variety; 2 varieties planted on a quarter of the land = less than a quarter for each variety)²

H.18.4. How many additional crops and varieties are sustained through saved and stored seeds?

H.18.5. What is the reason for planting and saving a number of different crops or varieties?

² The total area of cultivated land can be calculated by using the data collected in table D.4. – add together the rainfed and irrigated land and subtract the fallow land, if relevant).

Section I: Seed Systems and Seed Security

I. 1. How did you obtain your seeds during the last planting season? (for 1 crop and one type of variety you can choose multiple sources, list by ranking the importance)

Crop		Variety type	Seed Source Code	Who sourced the seed – Men /Women?
Maize	1.1	landraces		
	1.2	Improved varieties		
	1.3	hybrid		
Rice	1.4	landraces		
	1.5	Improved varieties		
	1.6	hybrid		
Wheat	1.7	landraces		
	1.8	Improved varieties		
	1.9	hybrid		
Potato	1.10	landraces		
	1.11	Improved varieties		
	1.12	hybrid		
Soya beans	1.13	landraces		
	1.14	Improved varieties		
	1.15	hybrid		
Pearl millet	1.16			
Sorghum	1.17			
Barley	1.18			
Wheat	1.19			
Cow peas	1.20			
Vegetables	1.21			
cassava	1.22			
Cotton	1.23			
G/nuts	1.24			
R/nuts	1.25			
Peanut	1.26			
Tobacco	1.27			
Sugar cans	1.28			
Sugar beans	1.29			
Other _____	1.30			
Other _____	1.31			

Seed Source Codes:

- 1=Retained/self saved
- 2=Self improved
- 3=community improved
- 4=Purchases

- 5=Exchanged with other farmers in the same community
 6= Exchanged with farmers from other community
 7=Obtained from relatives (from mother side?)
 8= Obtained from other relatives;
 9=Gifts& Remittances,
 10=local market
 11=local extension station
 12=Barter markets,
 13=NGO Direct
 14=NGO Voucher
 15=Food aid grain,
 16= Gov Input Program,
 17=Private Firms (Contract)
 18=Other, specify

I. 2.

2.1	For which crops do you normally keep seed from previous harvest? By ranking	List crops _____ _____ _____ _____ _____		
2.2	For which crops did you normally keep seed from previous harvest 10 years ago?	List crops _____ _____ _____ _____ _____		
2.3	Who in the family is responsible for criteria for seed selection for the next crop season?	1. Men 2. Women 3. Girls 4. Boys 5. Elderly 6. Other	Crops for HH consumption	Market crops
2.4	Who in the family is responsible for selecting seeds for the next season?	1. Men 2. Women 3. Girls 4. Boys 5. Elderly 6. Other	Crops for HH consumption	Market crops
2.5	Who in the family is responsible for	1. Men 2. Women	Crops for HH consumption	Market crops

	storing seeds for the next season?	3. Girls 4. Boys 5. Elderly 6. Other		
--	------------------------------------	---	--	--

I. 3. Please list the variety that you select from previous harvests and indicate their strengths and weaknesses.

	3.1 Crop	3.2 Variety (name)	3.3 Variety type	3.4 Strengths	3.5 Weaknesses
1					
2					
3					
4					
5					
6					
7					

Variety Type code:
1. landrace
2=self improved Varieties
3=community improved variety(incl PPB)
4=introduced improved Variety
5=Hybrid
6=Other, specify

I. 4. Please list the new variety that you adopted in the last 10 year and indicate their strengths and weaknesses.

	4.1 Crop	4.2 Variety (name)	4.3 Variety type	4.4 Strengths	4.5 Weaknesses
1					
2					
3					
4					
5					
6					

Variety Type code:

- 1. landrace
- 2=self improved Varieties
- 3=community improved variety(incl PPB)
- 4=introduced improved Variety
- 5=Hybrid
- 6=Other, specify

I. 5. How do you access new/improved varieties of seeds?

	5.1 Crop	5.2 Variety type Code 1	5.3 Seed Source Code 2	5.4 Ease of access Code 3
1				
2				
3				
4				
5				
6				

Code 1	Code 2	Code 3
1. landrace 2=self improved Varieties 3=community improved variety(incl PPB) 4=introduced improved Variety 5=Hybrid 6=Other, specify	1=Self-improved 2=Purchases 3=NGO Direct 4=Exchanged with other farmers 5=Barter markets 4=NGO Voucher 5=Food aid grain 6=Gifts& Remittances 7= Gov. Input Program 8=Private Firms (Contract) 9=Other, specify	1=Easily accessed in a short time at little cost 2=Difficult to access requiring lengthy time and a degree of cost 3=Very difficult to access requiring luck or large expenditure

I. 6	Where do you get your new seed for replanting in case one crop fails? Please list by ranking for importance.	1. _____ 2. _____ 3. _____ 4. _____ 5. Other _____
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I. 7. How important to you is seed security : _____

1= Very important; 2=Important; 3=Slightly important; 4=Not important.

Section J: Climate Change and Adaptation

J. 1. Climate Change situation in the last 10 years

Do you think that the climate in your community is changing?

	Item	01. Major Changes	02. Change degree during the years of 2002-2012					03. Possible reason	04. Adaptation strategies
			Very little	Little	Normal (no change)	Much	Very much		
1.1	Rain fall								
1.2	temperature (summer/winter)								
1.3	wind strength								
1.4	Sun shine								
1.5	River water flow								
1.6	Drought								
1.7	flood								
1.8	Insects/Pests								
1.9	Diseases (animal &crop)								
1.10	Extreme whether								

J.2. Which of the following phenomena associated with climate change have you observed?

1=Disappearance of native species

2=Drying of rivers and lakes

3= Reduction in area of forests

4=Disappearance of wetlands

5= Change in length of seasons (eg. winter season is longer)

6=Crop growth period is longer or shorter

7 = Changes in seeding patterns of trees

8=Increased incidences of floods

J. 3. Does the rainy season arrive at the same time/month each year? Yes ____ No ____

J.4. Indicate the Month of arrival of the rainy season (long rains):

	4.2 Now	4.3 10 years ago (2000)	4.4 20 years ago (1990s)	4.5 30 years ago (1980s)	4.6 40 years ago (1970s)
1					
2					
3					
4					
5					

J.5 Indicate the month when the rainy season ends (**long rains**):

	5.2 Now	5.3 10 years ago (2000)	5.4 20 years ago (1990s)	5.5 30 years ago (1980s)	5.6 40 years ago (1970s)
1					
2					
3					
4					
5					

J.6 Indicate the Month of arrival of the rains in **dry season (short rains)**:

	6.2 Now	6.3 10 years ago (2000)	6.4 20 years ago (1990s)	6.5 30 years ago (1980s)	6.6 40 years ago (1970s)
1					
2					
3					
4					
5					

J.7 Indicate the month when the rains in **dry season ends (short rains)**:

	7.2 Now	7.3 10 years ago (2000)	7.4 20 years ago (1990s)	7.5 30 years ago (1980s)	7.6 40 years ago (1970s)
1					
2					
3					
4					
5					

J.8. Extreme events during the last 10 years:

	Types of Extreme Events	1. Have you observed any of the following phenomena during the last 10 years?	2. How many times in ONE year?	3. How long did it last?	4. When (which month) did it happen?
8.1	Drought	Yes/ No			
8.2	Floods	Yes/No			
8.3	Cloud burst				
8.4	Other	Yes/No			

	Types of Extreme Events	1. Have you observed any of the above phenomena before the last 10 years?	2. When? 1=15 years ago? 2=20 years ago? 3=30 years ago? 4=40 years ago?	3. How long did it last?	4. When (which month) did it happen?
8.5	Drought	Yes/ No			
8.6	Floods	Yes/No			
8.7	Cloud burst				
8.8	Other	Yes/No			

J.9. In your opinion, what is the cause of these extreme events?

- 1=Nature (Pacha Mama)
- 2=The spirits
- 3=People (humans) and how
- 4=climate change
- 5=I do not know

J.10. What kind of indicators do you use to forecast the onset of the rainy season? (specify which ones):

- 1=animal behavior
- 2=Trees/shrubs
- 3=the weather during the dry season
- 4=wind (direction, etc)
- 5=clouds
- 6=rivers, creeks, etc
- 7=fire (forest, savanah, etc)
- 8= cosmological signs/events (looking at the stars/skies)
- 9= flowering patterns
- 10=others (specify): _____

J. 11. Staple food crop's best introduced variety's changes in the past 10 years

11.1. Variety Name: _____ 11.2. Variety type: _____ 11.3. Starting year: _____	01. Major changes	02. Change degree 2002-2012					03. Possible reason	04. Adaptation strategies
		Very little	little	Normal	Much	Very much		
11.4	Yield							
11.5	quality							
11.6	characteristics							
11.7	Resistance							
11.8	plant height							
11.9	planting location							
11.10	planting condition							
11.11	planting time							

11.12	Harvesting time								
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Possible reasons: 1. climate change; 2. poor seed quality; 3. Degeneration; 4. self/community improvement; 5. Better farming management; 6. poorer farming management; 7. More fertilizer; 8. less fertilizer....

J. 12. A staple food crop's best landrace's changes in the past 10 years

12.1. Landrace Name: _____	01. changes	02. Change degree 2002-2012					03. Possible reason	04. Adaptation strategies
		Very little	little	Nor mal	Muc h	Very much		
12.2	Yield							
12.3	quality							
12.4	characteristics							
12.5	Resistance							
12.6	plant height							
12.7	planting location							
12.8	planting condition							
12.9	planting time							
12.10	Harvesting time							

Possible reasons: 1. climate change; 2. poor seed quality; 3. Degeneration; 4. self/community improvement; 5. Better farming management; 6. poorer farming management; 7. More fertilizer; 8. less fertilizer....

Section K: Indigenous Knowledge, Social capital/networking

Indigenous Knowledge Situation and Changes

K1	When your household started to live in the community?	Year started: _____
K2	Do you know the community's original name and meaning in local language	Name: _____ Meaning: _____
K3	Are you belong to the original ethnic group in the community ?	Yes, , or No
K4	Do you speak native language?	Yes, or No _____
K5	Who else in your HH speak native language? Code 1	
K6	Who in your HH write native language? Code 1	
K7	Who in your HH participate in Traditional rituals, festival and celebrations? Code 1	
K8	Who in your HH are still in Traditional Clothing.... Code 1	
K9	Who in your HH can still do Traditional song and dances? Code 1	
K10	List out traditional farming technologies and practices,	Now:

	you HH still using now and 30 years ago by ranking	30 years ago:
K11	Is your house traditional type?	Yes,_____ or No_____
K12	Who in your HH like traditional house the most? Code 1	_____
K13	List out the staple food for your HH eat now and 30 years ago?	Now: 30 years ago:
K14	Who in your HH participate most in collective activities in the community? Code 1	
K15	Who do you normally contact in the community?	
K16	For what activity/reason/event?	
K17	Who do you normally contact in other community?	
K18	For what activity/reason/event?	
K19	Who do you normally contact in cities?	
K20	For what activity/reason/event?	

【Code 1】 : 1=Head of Household; 2=Spouse of head of household; 3=Father of head of household; 4=Mother of head of household;
11=Elder son; 12=Elder son's wife; 13=Second son; 14=Second son's wife; 15=Third son; 16=Third son's wife; ;
21=Elder daughter; 22=Second daughter; 23=Third daughter;
31=Grandson; 32=Granddaughter ; 99=other, please specify

Section L: Changes and Innovation

What are the big changes in your HH in the last 30 years? And what did you do to cope with these changes?

L.1. Major Changes in the last 30 years in the community:

Type:		01. Change Item:	02. Reasons	03. when and time period	04. Has your HH been affected/ involved?	05. Major coping strategies
1. Climate changes and Nature disaster	1.1					
	1.2					
	1.3					
	1.4					
	1.5					
2. Livelihood, food security	2.1					
	2.2					
	2.3					
	2.4					
	2.5					
3. Crop, Biodiversity, Farming practices	3.1					
	3.2					
	3.3					
	3.4					
	3.5					
4. Social capital, networking, institutional and organization	4.1					
	4.2					
	4.3					
	4.4					
	4.5					

L.2. Major Innovation in the last 30 years in the Household:

What are the major innovations developed by your HH? Does your household participate in any of the following innovative practices?

	01. Innovation item: (choose	02. Key reason for doing it (why)-	03. Key characte ristic	04. Who in the HH came up with the innovation?	05. How long ago did you develop	06. How many farmers have adoptedit?	07. Has the innovatio n spread

		from lists)	Code 4			or adopt it?		to other villages? If yes, to how many?
Code 1. Livelihood, food security	1.1							
	1.2							
	1.3							
	1.4							
	1.5							
Code 2. Crop, Biodiversity, Farming practices	2.1							
	2.2							
	2.3							
	2.4							
Code 3. Social capital, networking, institutional and organization	3.1							
	3.2							
	3.3							
	3.4							
	3.5							

Code 1: 1= micro-finance or banking service; 2=distribution/sale of crops/products nationally; 3= distribution/sale internationally; 4= use of marketing strategies to sell products; 5= use of financial accounting principles; 6=revival of traditional markets (eg. barter); 7= other, specify

Code 2: 1 = free seed exchanges; 2=drip irrigation of crops; 3=growth of GM crops; 4=protection of crops in seed banks or preservation areas; 5= cropping practice; 6=identification of resilient cultivars; 7=crop domestication; 8=new/modified tool; 9=re-introduction of traditional crops; 10=re-introduction of traditional farming methods , 11=improved/more resilient crop; 12= growth of modern hybrids 13= other, specify

Code 3: 1 =Repatriation of traditional crops; 2=community crop technician group; 3=community based crop improvement, 4=community based seed production, 5=community organization to assist with farming/harvesting; 6=community organization/group for market access, 7= involvement/protests to assert indigenous rights; 8= joining of villages to maximize agricultural production/ market access; 9= revival of customary laws/practices; 10=benefit-sharing mechanisms within community; 11=benefit-sharing mechanisms with other stakeholders, 12= community registers, 13=community seed fairs, 14=community seed banks, 15= other, specify

Code 4: 1 = ecological risks/changes; 2 =major climatic event that led to crop failure/scarcity; 3= economic and market needs; 4=social and culture needs, 5=labor shortage/saving, 6= repatriation/collaboration with scientists (= supporting factor); 7= discovered by accident; 8=experiment and exploration, 9=Other, specify

Note: for each innovation there may be multiple reasons, list by ranking the importance,

L.3. Major Factors that led to the innovations

What are the major factors or conditions that led to each innovation?

		01. Innovation item: (list)	02. Where did the idea come from?	03. Factors or conditions that led to the innovation Code 4	04. Factors or conditions that led to the spread of the innovation Code 4	05. Contribution of TK/ BCH (internal) and external knowledge Code 5	06. Impact of the innovation on the biocultural system (eg. on species, culture, rituals, livelihoods, food security)
Code 1. Livelihood, food security	1.1						
	1.2						
	1.3						
	1.4						
	1.5						
Code 2. Crop, Biodiversity, Farming practices	2.1						
	2.2						
	2.3						
	2.4						
Code 3. Social capital, networking, institutional and organization	3.1						
	3.2						
	3.3						
	3.4						
	3.5						

Code 1: 1= micro-finance or banking service; 2=distribution/sale of crops/products nationally; 3= distribution/sale internationally; 4= use of marketing strategies to sell products; 5= use of financial accounting principles; 6=revival of traditional markets (eg. barter); 7= other, specify

Code 2: 1 = free seed exchanges; 2=drip irrigation of crops; 3=growth of GM crops; 4=protection of crops in seed banks or preservation areas; 5= cropping practice; 6=identification of resilient cultivars; 7=crop domestication; 8=new/modified tool; 9=re-introduction of traditional crops; 10=re-introduction of traditional farming methods , 11=improved/more resilient crop; 12= growth of modern hybrids 13= other, specify

Code 3: 1 =Repatriation of traditional crops; 2=community crop technician group; 3=community based crop improvement, 4=community based seed production, 5=community organization to assist with farming/harvesting; 6=community organization/group for market access, 7= involvement/protests to assert indigenous rights; 8= joining of villages to maximize agricultural production/ market access; 9= revival of customary laws/practices; 10=benefit-sharing mechanisms within community; 11=benefit-sharing mechanisms with other stakeholders, 12= community registers, 13=community seed fairs, 14=community seed banks, 15= other, specify

Code 4: 1 = ecological risks/changes; 2 =major climatic event that led to crop failure/scarcity; 3= economic and market needs; 4=social and culture needs, 5=labor shortage/saving, 6= repatriation/collaboration with scientists (= supporting factor); 7= discovered by accident; 8=experiment and exploration, 9=Other, specify

Note: for each innovation there may be multiple reasons, list by ranking the importance,

Code 5: 1=Mainly TK/ BCH, 2= 50:50; 3 = mainly science

L.4.How much time per month do you devote to developing new ideas for the cultivation of crops by your household? 0 days, 1-2 days, 3-5 days, 5+ days

L.5.How important are new innovations to the well-being of your household?

1. Very important
2. Important
3. Somewhat important
4. Not important

L.6.In what areas are innovations most necessary for the well-being of your household?

(Examples of potential responses)

Maximization of agricultural production

Economic growth

Confronting climate change

Marketing/product sales

Models of community participation

Integration with national and international economies

Reduced cost of living

Section M: Household Health

To what extent have your household members been afflicted by serious illness? What is the role of herbal medicine in human health of your HH?

- (i) What are the common illnesses that frequently afflict the members of your HHs?
- (ii) Which illnesses are very serious and difficult to treat?
- (iii) How far is the nearest health facility (dispensary, health center etc.)?
- (iv) Where do you seek treatment in case of these common illnesses and is the treatment effective?