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International Food Policy  
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Crops

Center for Social and  
Economic Research  
SOTSECONIC

University of Central  
Asia, UCA

## Panel Survey of Households

## LIFE IN KYRGYZSTAN 2016

# Agriculture Questionnaire

### INFORMATION ABOUT HOUSEHOLD

Household code in 2016

Name of a main respondent


Interviewer code

Individual respondent code


### SURVEY RESULTS

Visit №	Date of a visit (DD.MM)	Start of interview (HH:MM)	End of interview (HH:MM)	Assessment of the quality of information <i>1 Reliable; 2 Unreliable</i>	Notes on survey

## Module 1: FARM LAND AND USE

### 1.1. Land Plots

**Enumerator:** (*read out*) We would like to know about household farmland and use during the 2015/16 agricultural season.

A301	Does your household own/cultivate any plot of land?	Yes	1	<b>If No --&gt; go to Section 7</b>
		No	2	
A302	How many plots or parcels of land does your household own? (in numbers; include household garden if used for agricultural purposes)			____  plots
A303	Please indicate the organizational type of your household	1. Sole owner of a peasant farm 2. Co-owner of a peasant farm with other households	3. Member of a collective farm (agricultural enterprise or cooperative) 4. None of the above: Household farms only the household plot	

**Read out:** We will first make a simple sketch of all plots owned/operated by you and then ask questions regarding ALL fields or plots that you cultivated (including rented in/ borrowed in), rented-out or borrowed-out and land cultivated during the 2015/16 **Winter** and **Summer** agricultural seasons. We will ask you questions on crop management and harvest only for land cultivated, kitchen gardens and orchards (excluding the rented out/borrowed out fields).

**After sketching, sequentially number the fields 1, 2, 3 etc.. Label (in words) on the sketch the location of each field with respect to the homestead (HS), the crop(s) cultivated in each field and the season(s) when they were cultivated** (follow the instructions in the interviewers manual).

Reference period: 2015/2016 agricultural season (1st October 2015 – 30<sup>th</sup> September 2016).

## 2.2 Fields

**Enumerator:** The sketch shows that this household has cultivated \$)\_\_\_ fields. Please tell us about each of those fields including fields cultivated or managed on behalf of absentee owners.

**If A301=2 → go to SECTION "2.6 Crop Sales" to capture potential sales from previous year's harvest. Ask the respondent to give you the details about all of those fields.**

Reference Period: 2015/16 agricultural season

Field ID	What is the land-use of this field?	What is the area of this field?		How far is the parcel from the dwelling?  (write 0 for kitchen gardens)  in km	Are you or is any member of the household the legal owner?  (see codes below)	How did this household acquire this field?  1=bought 2=bartered 3=inherited 4=received as gift 5=received from land distribution 6=rented / borrowed 7=other	Agro-Forestry – trees / shrubs on fields or around the boundaries				In which season/s have you cultivated this field?  1=1 <sup>st</sup> cultivation 2=2 <sup>nd</sup> cultivation 3=both 4= not cultivated ( <i>Enumerator: If answer is 1 - fill in Tables 2.3.1, 2.4.1 and 2.5.1.</i> <i>If answer is 2 - fill in Tables 2.3.2, 2.4.2 and 2.5.2.</i> <i>If answer is 3 - complete all tables from 2.3.1 to 2.5.1).</i> <i>If answer is 4 – go to Section 7.</i>
	1=own cultivated field 2=rented in 3=borrowed in 4=kitchen garden 5=fallow (natural/improved) 6=rented out 7=borrowed out 8=orchard 9=personal woodlot 10=hayfield 11=other	Area of field	Unit  1= hectare 2= sotka				Are there any trees/shrubs growing in or around this field?  1=Yes 2=No -> FL02	How many trees / shrubs are there currently? (incl. border)  1=1-10 2=11-20 3=20-50 4=50 or more 99 =Not sure	In what year did you plant most of the trees / shrubs in this field?  (Enter 9 if did not plant any trees / shrubs)	What is the main tree / shrub species in this field?  (see codes for tree species)	
FIELD	F01	H227	F03	H228	H229	H230	AF01	AF02	AF03	AF04	FL02
1											
2											
3											
4											
5											

<b>Tenure status (H229 )</b> 1=yes, private ownership (red book) 2=yes, decision of local administrator 3=yes, other document 4=no 5=other	<b>Tree types (AF04)</b> 0=None planted 1=Poplar 2=Elm 3=Beech (Fagus) 4= Willow 5= Mulberry (Sucamine) 6= Fruit trees (apple, pear, apricot, etc) 7= Oak	8= Walnut 9= Birch 10= Seabuckthorn 11= Rosehip 12= Siren 13= Acacia 14=Other
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### 2.3.1. Land Use FIRST CULTIVATION

**Enumerator:** Please list below only fields cultivated in the First Cultivation. These are use codes F01 = 1, 2, 3, 4 or 10 (cultivated) in Table 2.2 for which FL02=1 or 3.

**FL02 1:** In which month and year have you started planting the first cultivation (October 2015-September 2016)?

**Reference period:** 2015/2016 Agricultural season

Field ID <i>(enter appropriate field number from 2.2)</i>	What <b>main</b> crop or use did the hh put this field to in the 2015/16 First Cultivation? <i>(see codes below)</i>	Was the field monocrop or crop mixture in this First Cultivation? <i>1=Monocrop 2=Mixture</i>	Ask if crop mixture on the field  How many crops were in this field during the First Cultivation?	What types of tillage methods were used in this field?  <i>List up to TWO, starting with the most important method first then the second most important (Enumerator: If only 1 method used, record "0" for the 2<sup>nd</sup> method.) (see codes below)</i>	On what percentage of the field did you use the tillage methods indicated in FL04a and FL04b  <i>Record the response on the scale of 0 to 100. If only one method was used, enter 100 in FL04c</i>	How many times was the field sprayed with herbicide?  <i>(Complete sprays) (Enter "0" if field not sprayed and skip to FL08) Enumerator: specify that herbicides are used for weeding, insecticides (FL08) to kill insects</i>	Ask if FL07>0  How much did it cost to spray with herbicides?  <i>(Soms)</i>	How many times was the field sprayed with insecticide?  <i>(Complete sprays) (Enter "0" if field not sprayed and skip to FL09)</i>	Ask if FL08>0  How much did it cost to spray with insecticides?  <i>(Soms)</i>	Did the HH apply animal manure and/or compost to the field?  <i>0=None 1=Yes, animal manure 2=Yes, compost 3=both</i>	Did the HH use fertilizers to cultivate this field?  <i>1=Yes 2=No&gt; skip to FL10</i>	How much did the fertilizers used for this field cost (in cash)?  <i>(Soms)</i>	Did the HH hire labour for this field?  <i>1=Yes 2=No &gt; skip to next field</i>	How much did you pay for hired labor to work on this field?  <i>(Soms)</i>		
FIELD	FL01	FL03a	FL03b	FL04a	FL04b	FL04c	FL04d	FL07	FL07b	FL08	FL08b	FL09	H237	H239	FL10	FL10b

#### Crop code (FL01)

- |                  |                          |                    |
|------------------|--------------------------|--------------------|
| 1 = Winter wheat | 11 = Sainfoin (Esparcet) | 21= Grape          |
| 2 = Spring wheat | 12= Alfaalfa (Lucerne)   | 22= Peach          |
| 3 = Burley       | 13=Tomatoes              | 23= Kitchen Garden |
| 4 = Maize        | 14=Onion                 | 24= Fruit Orchard  |
| 5 = Sunflower    | 15=Carrot                | 25=Apricots        |
| 6 = Cotton       | 16= Sugar beet           | 26=Other           |
| 7 = Potato       | 17= Cabbage              |                    |
| 8 = Tobacco      | 18= Apple                |                    |
| 9 = Kidney beans | 19=Pear                  |                    |
| 10 = Rice        | 20= Cherry               |                    |

#### Main Tillage (FL04)

- 1 = Hand hoeing
- 2 = Zero tillage
- 3 = Ploughing with tractor
- 4 = Ploughing with horses
- 5 = Ridging (before planting)
- 6 = Mounding
- 7 = Did not till – broadcast seed
- 8= No other tillage method

### 2.3.2. Land Use SECOND CULTIVATION (Spring/Summer)

**Enumerator:** Please list below only fields cultivated in the SECOND cultivation. These are use codes F01 = 1, 2, 3, 4 or 10 (cultivated) in Table 2.2 for which FL02=2 or 3.

**Reference period:** 2015/2016 Agricultural Summer Season

Field ID <i>(enter appropriate field number from 2.2)</i>	What <b>main</b> crop or use did the hh put this field to in the Second Cultivation? <i>(see codes below)</i>	Was the field monocropped or crop mixture in this Second Cultivation? <i>1=Monocrop 2=Mixture</i>	Ask if crop mixture on the field How many crops were in this field during the Second Cultivation?	What types of tillage methods were used in this field? <i>List up to TWO, starting with the most important method first then the second most important (Enumerator: If only 1 method used, record "0" for the 2<sup>nd</sup> method.) (see codes below)</i>	On what % of the field did you use the tillage methods indicated in FL04a and FL04b <i>Record the response on the scale of 0 to 100. If only one method was used, enter 100 in FL04c</i>	How many times was the field sprayed with herbicide? <i>(Complete sprays) (Enter "0" if field not sprayed and skip to FL08) Enumerator: specify that herbicides are used for weeding, insecticides (FL08) to kill insects</i>	Ask if FL07>0 How much did it cost to spray with herbicides? <i>(Soms)</i>	How many times was the field sprayed with insecticide? <i>(Complete sprays) (Enter "0" if field not sprayed and skip to FL09)</i>	Ask if FL08>0 How much did it cost to spray with insecticides? <i>(Soms)</i>	Did the HH apply animal manure and/or plant manure/compost to the field? <i>0=None 1=Yes, animal manure 2=Yes, compost 3=both</i>	Did the HH use fertilizers to cultivate this field? <i>1=Yes 2=No-&gt; skip to FL10</i>	How much did the fertilizers used for this field cost (in cash)? <i>(Soms)</i>	Did the HH hire labour for this field? <i>1=Yes 2=No &gt; skip to next field</i>	How much did you pay for hired labor to work on this field? <i>(Soms)</i>		
FIELD	FL01	FL03a	FL03b	FL04a	FL04b	FL04c	FL04d	FL07	FL07b	FL08	FL08b	FL09	H237	H239	FL10	FL10b

<b>Crop code (FL01)</b>			<b>Main Tillage (FL04)</b>		
1 = Winter wheat	10 = Rice	20= Cherry	1 = Hand hoeing		
2 = Spring wheat	11 = Sainfoin (Esparcet)	21= Grape	2 = Zero tillage		
3 = Burley	12= Alfaalfa (Lucerne)	22= Peach	3 = Ploughing with tractor		
4 = Maize	13=Tomatoes	23= Kitchen Garden	4 = Ploughing with horses		
5 = Sunflower	14=Onion	24= Fruit Orchard	5 = Ridging (before planting)		
6 = Cotton	15=Carrot	25=Apricots	6 = Mounding		
7 = Potato	16= Sugar beet	26=Other	7 = Did not till – broadcast seed		
8 = Tobacco	17= Cabbage		8= No other tillage method		
9 = Haricot beans	18= Apple				
	19=Pear				

## 2.4.1 Irrigation and Crop Rotation in FIRST CULTIVATION

Reference Period: 2015/16 Agricultural season, FIRST CULTIVATION

Field ID	Ask for all plots										
	Did the HH irrigate this field during the First Cultivation?  <i>1=Yes 2=No</i>	What was the <u>main</u> type of irrigation used in the First Cultivation?  <i>1=piped public drinking water canal 2=irrigation 3=well/river/stream &amp; bucket 4=other 5=artesian well</i>	How much water did you use to irrigate this field?  <i>m3</i>	How much did you pay for irrigation in total?  <i>(Soms)</i>	Soil erosion		Soil salinity		What main crop or use did the HH put this field to in the 2014 First Cultivation?  <i>(see crop/use codes below)</i>	How was the crop/field residue from this field from the 2014 First Cultivation mainly used or disposed of?  <i>(see codes below)</i>	What main crop or use did the HH put this field to in the 2014 First Cultivation?  <i>(see crop/use codes below)</i>
FIELD	H235	H235b	H235c	H235d	F10a	F10b	F11a	F11b	F13	F14	F15
1											
2											
3											
4											
5											

Soil Man. codes (F10b, F11b)	Crop code or Use Codes (F13, F15)				Crop residue use (F14)
0=None 1=Stone bunds 2=Earthen bunds 3=Terraces 4=Drainage ditches 5=Grass barriers 6=Contour farming/plowing 7=Other (Specify)	1 = Winter wheat 2 = Spring wheat 3 = Burley 4 = Maize 5 = Sunflower 6 = Cotton 7 = Potato 8 = Tobacco 9 = Haricot beans 10 = Rice 11 = Sainfoin (Esparcet)	12= Alfalfa (Lucerne) 13=Tomatoes 14=Onion 15=Carrot 16= Sugar beet 17= Cabbage 18= Apple 19=Pear 20= Cherry 21= Grape 22= Peach	23= Kitchen Garden 24= Fruit Orchard 25=Apricots 26=Other Specify _____ 28= New field 66= Not cultivated 99=Don't know/Not available		1=Left in field then plowed/ incorporated into field 2=Left in the field and grazed by animals 3=Burned on field 4=Cut & removed from field & fed to animals 5=New field, cleared later 6=Left in field or did nothing

## 2.4.2. Irrigation and Crop Rotation SECOND CULTIVATION

Reference Period: 2015/16 Agricultural season

Field ID	Ask for all plots										
	Did the HH irrigate this field during the Second Cultivation?	What was the <u>main</u> type of irrigation used in the Second Cultivation?  1=piped public drinking water 2=irrigation canal 3=well/river/stream & bucket 4=other 5=artesian well	How much water did you use to irrigate this field?  m3	How much did you pay for irrigation in total?  (Soms)	Soil erosion Is this field prone to soil erosion and/or flash flooding / landslides?  1=Yes 2=No 9=don't know <i>If No, skip to F11a</i>	What, if anything, did the hh do to prevent soil erosion and/or flash flooding/landslide in this field?  (see codes below)	Soil salinity Is this field prone to salinity?  1=Yes 2=No 9=don't know <i>If No, skip to F13</i>	What, if anything, have you done to deal with salinity?  (see codes below)	What main crop or use did the hh put this field to in the 2014?  (see crop/use codes below)	How was the crop/field residue from this field from the 2014 mainly used or disposed of?  (see codes below)	What main crop or use did the hh put this field to in the 2014?  (see crop/use codes below)
FIELD	H235	H235b	H235c	H235d	F10a	F10b	F11a	F11b	F13	F14	F15
1											
2											
3											
4											
5											

Soil Man. codes (F10b, F11b)	Crop code or Use Codes (F13, F15)			Crop residue use (F14)
0=None 1=Stone bunds 2=Earthen bunds 3=Terraces 4=Drainage ditches 5=Grass barriers 6=Contour farming/plowing 7=Other (Specify)	1 = Winter wheat 2 = Spring wheat 3 = Burley 4 = Maize 5 = Sunflower 6 = Cotton 7 = Potato 8 = Tobacco 9 = Haricot beans 10 = Rice 11 = Sainfoin (Esparcet)	12= Alfalfa (Lucerne) 13=Tomatoes 14=Onion 15=Carrot 16= Sugar beet 17= Cabbage 18= Apple 19=Pear 20= Cherry 21= Grape 22= Peach	23= Kitchen Garden 24= Fruit Orchard 25=Apricots 26=Other Specify _____ 28= New field 66= not cultivated 99=Don't know/Not available	1=Left in field then plowed/ incorporated into field 2=Left in the field and grazed by animals 3=Burned on field 4=Cut & removed from field & fed to animals 5=New field, cleared later 8=Left in field or did nothing

### 2.5.1. Crop Management – Planting and Harvest in FIRST CULTIVATION

**Enumerator:** Transfer field numbers from Table 2.3.1. Ask the following questions for all fields planted in the 2015/16 agricultural First Cultivation. For grain harvest, make sure you capture the CM15b to calculate real grain harvest.

Reference Period: 2015/2016 Agricultural First Cultivation

Field ID	Crop Code	What was the area under each crop in this First Cultivation?		What % of the area planted was harvested in this First Cultivation?	(Ask if area harvested < area planted) What is the main reason for not harvesting the whole area planted? (see codes below)	What main seed variety did the hh use?  1= purchased 2= own	How much did you spend for seeds/tubers/vines for this crop in this season on this field? (estimate cash value if bartered)  (Soms)	Please specify the type of seed supplier  1=specialized dealer 2=bazaar 3=neighbors 4=state seed scheme 5=others  6=I do not know	What quantity of seed, tubers, or vines did the hh plant of this crop in First Cultivation on this field?		How much of this crop did the hh harvest during this season from this field?		Ask for GRAINS only Is the harvest reported from cleaned or uncleaned grains?	How much did the HH spend on machinery for this crop during this season on this plot?  Please fill for all cropping phases below		
		Area planted	Unit 1 = Ha 2 = Sotka						Quantity planted	Unit (see codes below)	Quantity harvested (if 0 → go to next crop)	Unit (see codes below)		1=cleaned 2=uncleaned	Land preparation and seeding (Soms)	Weeding (Soms)
FIELD	CROP	CM01	CM02	CM03	CM06	CM07	H245	H246	CM09	CM10	CM14	CM15	CM15b	CM16a	CM16b	CM16c

Crop code (CROP)			Reason for not harvesting total planted area (CM06)		Unit Code (CM10, CM15)
1 = Winter wheat 2 = Spring wheat 3 = Burley 4 = Maize 5 = Sunflower 6 = Cotton 7 = Potato 8 = Tobacco 9 = Haricot beans 10 = Rice 11 = Sainfoin	12= Lucerne 13=Tomatoes 14=Onion 15=Carrot 16= Sugar beet 17= Cabbage 18= Apple 19=Pear 20= Cherry 21= Grape 22= Peach	23= Plums 24=Apricots 25=Raspberry 26= Strawberry 27=Currant 28= Garlic 29= Pepper 30= Peas 31= Other (specify)_____	1 = wilting due to drought 2 = pests and diseases 3 = floods, heavy rain 4 = field not weeded / weeded late due to bad seed 5 = animal / bird destruction 6 = fire 7 = theft 8 = weeds overtook the field 9 = not enough labour	10=lack of fertiliser 11= failed germination due to drought 12= failed germination due to bad seed 13= low productivity after germination 14= planted late 15= eaten fresh 16= don't know 17 = other, specify _____	1=50 kg bag 2=25 kg bag 3=10 kg bag 4=kilogram 5=gram 6=units



**Reference Period: The 2015/2016 Agricultural Summer Season**

[illegible]

Crop code (CROP)			Reason for not harvesting total planted area (CM06)		Unit Code (CM10, CM15)
1 = Winter wheat	11 = Sainfoin	22= Peach	1 = wilting due to drought	9 = not enough labour	1=50 kg bag
2 = Spring wheat	12= Lucerne	23= Plums	2 = pests and diseases	10=lack of fertiliser	2=25 kg bag
3 = Burley	13=Tomatoes	24=Apricots	3 = floods, heavy rain	11= failed germination due to drought	3=10 kg bag
4 = Maize	14=Onion	25=Raspberry	4 = field not weeded / weeded late due to bad seed	12= failed germination due to bad seed	4=kilogram
5 = Sunflower	15=Carrot	26= Strawberry	5 = animal / bird destruction	13= low productivity after germination	5=gram
6 = Cotton	16= Sugar beet	27= Currant	6 = fire	14= planted late	6=units
7 = Potato	17= Cabbage	28= Garlic	7 = theft	15= eaten fresh	
8 = Tobacco	18= Apple	29= Pepper	8 = weeds overtook the field	16= don't know	
9 = Haricot beans	19=Pear	30= Peas		17 = other, specify _____	
10 = Rice	20= Cherry	31= Other (specify) ___			
	21= Grape				

## 2.6. All Crops Sales

**Enumerator:** Ask the following questions about crop sales for all crops the household harvested in the last 12 months (2015/2016 agricultural season). Make sure that crop sales include payments made with crops in exchange for labour and other services. Ask if the household did NOT harvest any crops in the last 12 months:

**S00:** Did the household sell crops from previous harvests in the past 12 months? \_\_\_\_ 1=yes > fill in table 2.6 2=no > skip to livestock module

Reference Period: Last 12 months

Field number	Crop codes <i>Transfer the harvested crop codes from tables 2.5.1 and 2.5.2</i>	Did the HH sell or barter any of this crop in the last 12 months?  <i>1=Yes 2=No-&gt; next field</i>	What is the TOTAL quantity of this crop that the HH sold for cash and/or bartered for goods and/or labour in the last 12 months?		<b>Enumerator:</b> "Now I will ask some questions on the details of the largest sale/barter transaction you did for this crop in the last year"					All other transactions					
			TOTAL quantity sold / bartered	Unit (see codes below)	What quantity did the household sell/barter for the <u>largest</u> transaction?	What % of total harvest was the largest transaction?	When did the household sell/barter?	Who was the buyer?  <i>(see codes below)</i>  <i>write 0 if farm (if 0 → to S08A)</i>	How much did your HH spend to transport this crop from your home/field to the point of sale/barter? If you used your own transport how much would you have paid someone to transport it?	What was the price per unit for the largest cash transaction?  <i>(enter -9 if the transaction was bartered)</i>	From all other transactions of this crop from this field, how much total income was obtained in the last 12 months?				
FIELD	CROP	S01	S02A	S02B	S03A	S03B	S04	S05A	S05B	S06	S07A	S07B	S08A	S08B	S09

Crop code (CROP)			Buyer codes (S06)		Unit Code (S02B, S03B, S08B)	Month (C05B)
1 = Winter wheat 2 = Spring wheat 3 = Burley 4 = Maize 5 = Sunflower 6 = Cotton 7 = Potato 8 = Tobacco 9 = Haricot beans 10 = Rice 11 = Sainfoin 12= Lucerne	13=Tomatoes 14=Onion 15=Carrot 16= Sugar beet 17= Cabbage 18= Apple 19=Pear 20= Cherry 21= Grape	22= Peach 23= Plums 24=Apricots 25=Raspberry 26= Strawberry 27= Currant 28= Garlic 29= Pepper 30= Peas 31= Other (specify) __	1 = Small-scale trader 2 = Large-scale trader/wholesaler 3 = Retailer/marketeer 4 = Other households (for consumption) 5 = State Reserve Fund (SRF) 6 = Directly to miller/processor (delivered to mill/processor gate)	7 = To miller/processor through agent or designated buying point 8 = out-grower – local name?? 9= direct export 10=exporter or other intermediate exporter 11=Other (specify)_____	1=50 kg bag 2=25 kg bag 3=10 kg bag 4=kilogram 5= gram 6= units 7=center 8=ton	1=January 2=February 3=March 4=April 5= May 6= June 7= July 8= August 9=September 10=October 11=November 12=December

## SECTION 7. LIVESTOCK & POULTRY FARMING

<b>LS00</b>	Did this household <b>raise or own any livestock or poultry</b> between <b>in the last 12 months?</b>	<i>1=Yes</i> <i>2=No → go to next SECTION</i>
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### 7.1.A. Herd dynamics and sales: Please answer the following questions about the **livestock and poultry** that this **household raised or owned** in the last 12 months.

	Livestock	How many heads of livestock did your HH have 12 months ago? (Nr.)	How many heads of livestock were sold live or slaughtered during the last 12 months? (Nr.)	How many out of this was for export? (Nr.)	How much money on average did you receive from the sale of ONE live animal? (Soms)	How many heads of livestock were purchased during the last 12 months? (Nr.)	How much money on average did your HH pay to purchase ONE animal? (Soms)	How many animals were born during the last 12 months? (Nr.)	How many animals were lost due to death during the last 12 months? (Nr.)	How many of those that died were new-born (<3 months)? (Nr.)	How many animals were lost due to theft during the last 12 months? (Nr.)	How many animals did your HH slaughtered for home consumption during the last 12 months? (Nr.)	How many animals did your HH give away for free (gift) during the last 12 months? (Nr.)	How many heads of livestock does your HH have at present? (Nr.)	How much could you receive from sale of ONE animal of this type at current prices? (Soms)
Code		LS01	LS02	LS02x	LS03	LS04	LS05	LS05b	LS06	LS06b	LS07	LS08	LS10	LS11	LS12
1	Cows														
2	Heifers > 1 year														
3	Bulls and oxen > 1 year														
4	Calves < 1 year														
5	Pigs														
6	Sheep > 1 year														
7	Lambs < 1 year														
8	Goats > 1 year														
9	Goatlings < 1 year														
10	Horses														
11	Horses < 1yr														
12	Donkeys														
13	Poultry														

**Table 7.1.B. Herd management**

No.		At what age do you put the <b>females to reproduction</b> ?  (Nr.)	How many animals were <b>born per adult female</b> ?  (Nr.)	How many <b>milking animals</b> do you have on average?  (Nr)	What was the <b>average age of slaughtered</b> animals of this category?  (Months)	What was the <b>average weight of slaughtered</b> animals of this category?  (kg)
Code	Livestock	LS13	LS14	LS15	LS16	LS17
1	Cows					
2	Pigs					
3	Sheep					
4	Goats					
5	Horses					
6	Donkeys					
7	Poultry					

**7.2. Household labor for livestock and grazing (jailoo) activities**

LS18: Which members of your HH were involved in raising animals, including children? *(If more than 5 members were involved, enter the codes of those who helped the most:)*

ID code 1 \_\_\_\_\_ ID code 2 \_\_\_\_\_ ID code 3 \_\_\_\_\_ ID code 4 \_\_\_\_\_ ID code 5 \_\_\_\_\_

LS19a: Have any of the household members spent time in a jailoo (summer pasture) during the past 12 months? *(please enter number of completed months for each member mentioned above; if less than 1 month, enter zero)* **1=Yes, 2=No** *(skip to next 7.3. section)*

LS19b. Code of HH member					
LS19c. No. of months in jailoo					

### 7.3. Animal Products

LS15: Did your HH produce any animal products (e.g. meat, skins, etc)? **1=Yes 2=No (if No -> skip to the next section)**

Please answer the following questions if the answer is **Yes**.

		What quantity of the product were produced by your HH in the past 12 months? (Nr.)	What is the unit of production? <i>1=gram 2= kg 3= liter 4= item</i> (unit)	How many months did your HH consume the product? (Months)	What quantity of the product was consumed / used by your HH in the past 12 months? (Nr.)	How much would it have costed if you had purchased the consumed / used product in the market? (Soms)	What quantity of the product was given away for free (as a present) by your HH in the past 12 months? (Nr.)	What quantity of the product did your HH store? (Nr.)	What quantity of the product did your HH sell in the past 12 months? (Nr.)	How much money did your HH receive from the sale of product? (Soms)	How much money did your HH spend on producing the product? (Soms)
Code	LSPROD	LS20	LS21	LS22	LS23	LS23a	LS24	LS25	LS26	LS27	LS28
1	Mutton, lamb										
2	Beef										
3	Pork										
4	Poultry meat										
5	Eggs										
6	Cow's Milk										
7	Goat's milk										
8	Mares's milk & kymyz										
9	Kurut										
10	Sary mai										
11	Airan										
12	Cashmere fibre										
13	Wool, fur										
14	Skins										
15	Other products										

## 7.4. Livestock Expenses

Reference period: last 12 months

		Herding expenses					Veterinary costs		Fodder expenses			
		How many heads were grazed in village / remote pastures? (Nr.)	Cost per 1 head per month in village pasture (Soms)	How many months in village pasture? (Nr)	Cost per 1 head per month in remote pastures (soms)	How many months in remote pastures? (Nr)	How many heads were treated by veterinary? (Nr.)	How much was the cost per head for veterinary? (Soms)	Have you used any other fodder in addition to grazing/household scraps? 1=yes 2=no > skip to next line	What type of feed did you give to the animals in the last 12 months? (see codes below this table)	How many kg per day of this feed did you give per category? (kg)	How much money did you spend on supplemental feed? (Soms)
		LS29	LS30a	LS30b	LS31a	LS31b	LS32	LS33	LS34	LS35	LS35b	LS36
Code	LSTOCK_GROUP											
1	Sheep											
2	Cattle											
3	Horses											
4	Pigs											
5	Poultry											

**Code for LS35:** 1=Hay, 2=Grain, 3=Crop residues, 4=By-products (brans, molasses, oil seed cakes...), 5=Salt/minerals, 6=Other

LS37: Do you collect manure from animals to use on fields/for other household uses? **1=yes, 2=no (skip to LS38)**

LS37b: What percentage of the collected manure do you apply to the fields? (report in %) \_\_\_\_\_%

LS37c: In what form do you apply manure? **1=solid, 2=liquid**

LS38: Please provide any other expenses for all livestock in the past 12 months (approximately): \_\_\_\_\_ soms

## 10: AGRICULTURAL INFORMATION AND ADOPTION OF SOIL/LAND MANAGEMENT PRACTICES

Please tell us about the *advice/information the household received from organizations, private agents or individual farmers.*

### 10.1 Advice/Information Provision

Reference Period: OPEN

Type of Advice/Information Has any member of your household ever received any advice on...		Has any member of the HH ever received...?  1 = Yes 2 = No → go to next type of activity/advice	Who was the <u>most</u> important supplier or organizer of this advice / information? 1=Local administration officers 2=Local authorities (Aiyl Aimaks) 3= Water Users Association 4= Pasture Committee 5=Private output traders 6=Other outgrowers 7=Commercial banks 8=Private input suppliers/ stockists / agro-dealers/ agents 9=Fellow farmers 10=Cooperative/farmer group 11= Other, specify _____	How did you receive this advice/information? 1=Informal conversation 2=Radio program 3=Pamphlet/newspaper 4=Workshop 5=Field Day 6 =Demonstration plot 7=Visit 8=Meeting 9=Training programme 10 =Other (specify) _____	When did you first receive this information?  Year
	SRCODE	SR01	SR02	SR03	SR04
Zero tillage or minimum tillage	1				
Seed selection (drought or salt-tolerant seeds)	2				
Rotating cereals with legumes/nitrogen-fixing crops?	3				
Intercropping cereals with legumes/nitrogen-fixing crops?	4				
Leaving crop residues in the field (as mulch)	5				
Agroforestry (use of trees to protect/improve your crops/yield)	6				
Applying animal manure?	7				
Applying compost?	8				
Applying herbicides/pesticides?	9				
Leaving land fallow to rest the soil?	10				
Improving storage techniques (e.g. with chemicals/structures) to protect your grains in storage from weevils/other insects	11				

<b>HH44.</b> Does the household get access to information about weather (rainfall, temperature, drought...etc.)?    1 = Yes 2 = No → go to next Section		
<b>HH45.</b> (Ask if HH44 = 1) What is the household's <b>main source of weather information</b> ?	1 = Radio 2 = Television 3 = Government agricultural extension or veterinary officers 4 = NGO project officers 5 = Friends, relatives or neighbors 6 = Meteorological offices	7 = Newspaper 8 = Traditional forecaster / Indigenous knowledge 9 = Your own observations 10 = Local groups / gatherings / meetings 11 = Internet 12 = Other (specify) i.e. sms _____

### 10.3: Soil and Land Management Practices (SLM): Adoption vs. dis-adoption

Soil and Land Management Practice Code	SLM practices applied in 2015/16 Agricultural Season					
	Did this HH implement.... during the 2015/16 agricultural season? <i>1=Yes 2=No -&gt; skip to SLM03</i>	In which year did this HH begin implementing .....?	Did this HH ever practice ..... in the past (before the 2015/16 agricultural season)? <i>1=Yes-&gt; skip to SLM05 2=No</i>	What is the main reason why this HH never used ...? <i>(See codes below) Fill and then go to next practice</i>	To which crops did this HH apply .... in the past (before the 2015/16 agricultural season)? <i>(record 2 main crops) (See codes below)</i>	What is the main reason why this HH abandoned ....? <i>(See codes below)</i>
SLM00	SLM11	SLM02	SLM03	SLM04	SLM05	SLM06
1=Minimum / Zero tillage						
2=Seed selection (drought or salt-tolerant seeds)						
3=Crop rotation of cereals with legumes/nitrogen-fixing crops						
4=Intercropping of cereals with legumes/nitrogen-fixing crops						
5= Leaving crop residues in field and incorporating into the soil as mulch						
6= Agroforestry (use of trees to protect/improve crops/yields)						
7=Innovative irrigation methods						
8=Crop rotation with non-legumes						
9=Stone/earthen bunds						
10=Terraces						
12=Drainage ditches						
13=Grass barriers						
14=Contour farming						

Crop code (SLM05)			Reasons of dis-adoption (SLM04/SLM06)	
1 = Winter wheat 2 = Spring wheat 3 = Burley 4 = Maize 5 = Sunflower 6 = Cotton 7 = Potato 8 = Tobacco 9 = Haricot beans 10 = Rice 11 = Sainfoin	12= Lucerne 13=Tomatoes 14=Onion 15=Carrot 16= Sugar beet 17= Cabbage 18= Apple 19=Pear 20= Cherry 21= Grape	22= Peach 23= Plums 24=Apricots 25=Raspberry 26= Strawberry 27= Currant 28= Garlic 29= Pepper 30= Peas 31= Other (specify) __	1= Takes too much land out of crop production 2= Too expensive 3= Too difficult to obtain seedlings 4=Too difficult to protect seedlings 5=Too risky/uncertain due to land tenure insecurity 6=Too risky/uncertain for other reasons 7=Too labor intensive/time-consuming	8=Lacked information about the practice 9=Stopped receiving or didn't receive inputs or other incentives to use the practice 10=Other (specify)



## 11. REQUIREMENTS FOR PRODUCTS QUALITY

*I would like to ask about the requirements for product quality in the production of agricultural products.*

H316	Does your household meet the requirements on product quality (for example, by the use of fertilizers / pesticides, storage, transport or sanitary requirements)?	Yes		1
		No -->> <b>Finish the interview</b>		2
		Do not know -->> <b>Finish the interview</b>		99
H317	Which products do these quality requirements apply?	To all products manufactured by the household		1
		To exported products		2
		To products sold within the KR		3
		To products for own consumption		4
H318	Who informs your household on compliance with the requirements on product quality?	Main buyer		1
		Cooperative		2
		Government of local authorities		3
		Other		4
H319	What quality requirements must your household comply with? Specify separately for the crop and livestock  <i>(You can specify multiple responses)</i>		Crops	Livestock
		1 Fertilizers (the kind used, frequency, bans ...)	<input type="checkbox"/>	
		2 Pesticides / chemicals (type, use the frequency ...)	<input type="checkbox"/>	
		3 The requirements to raw materials (types of seed, ...)	<input type="checkbox"/>	
		4 Storage requirements	<input type="checkbox"/>	<input type="checkbox"/>
		5 Carriage Requirements	<input type="checkbox"/>	<input type="checkbox"/>
		6 Requirements for harvesting (method, time, ...)	<input type="checkbox"/>	
		7 Hygiene requirements	<input type="checkbox"/>	<input type="checkbox"/>
		8 Equipment requirements	<input type="checkbox"/>	<input type="checkbox"/>
		9 The requirements for animal welfare		<input type="checkbox"/>
	10 Other requirements	<input type="checkbox"/>	<input type="checkbox"/>	
H320	Does your household perform any quality certification (eg, HACCP - Hazard Analysis and Critical Control Points)?	Yes		1
		No		2