

**Appendix 1**  
**FAO-Netherlands Partnership Programme**  
**Seed System Impact on Household Welfare and Agricultural Biodiversity**  
**Household Survey - VISIT 1: August 2002**

Introduce yourself and explain the purpose of your visit. Note that the survey is being done by the United Nations, Alemaya University and HCS and the purpose is to understand how rural households live in Ethiopia. Note that there are no right and wrong answers and that no names will be put in the data base.

1	Name of enumerator	
2	Complete name of the household head <i>Include three names of the household head. Questionnaire should be submitted to Head of Household but is meant to inquire about the entire family.</i>	
3	Household head's sex	0=MALE 1=FEMALE CODE
4	Woreda code	CODE
5	PA code	CODE
6	Household code	CODE
7	Date of Interview (DD/MM/YY) <i>Use Gregorian calendar</i>	___/___/___
8	Time interview started <i>Use Western time</i>	___:___ AM/PM
9	Time interview completed <i>Use Western time</i>	___:___ AM/PM

WOREDAS' CODES:	PAs' CODES			
<b>1=CHIRO</b>	01=Beka Bela 02=Lalo Gudo 03=Ija Fara	04=Oda Moti 05=Odda Roba 06=Welda Jallela	07=Yabdo Shenbko 08=Teyfe	09=Fungendima 10=Yabdobobaku
<b>2=META</b>	01=Itosa Kollo 02=Wolkebd Misoma 03=Oda Chiafe 04=Chelenko lola	05=Hawi Bilisuma 06=Biftu Genema 07=Wolenso 08=Bekelcha Oromea	09=Harew 10=Doke 11=Tatayti 12=Chelenk Hara	13=Woltha 14=Elaabro 15=Ifa Jallela 16=Dudela
<b>3=DIRE DAWA</b>	01=Awale	02=Biyo Awale	03=Kalicha	04=Addada

**HOUSEHOLD SURVEY NUMBER**

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*Household survey number should result from: first 1 digit: woreda's code; second 2 digits PA's code; and third 3 digits household number. For example, household survey number 101001 means woreda 1 PA 01 and household 001.*

**SECTION 1. HOUSEHOLD IDENTIFICATION**

**TABLE 1.1 HOUSEHOLD MEMBERS**

*We would like to know about you and your family. Can you please tell us about all the members of your family starting with yourself?*

HH MEMBER CODE	1. List the names of all of the members of the household starting with the household head  <i>The house is the unit which eats together and generally shares income and expenses. Household members include anyone that lived in the household for more than three months of the year.</i>		2. What is the relationship between the household head and each member of the household?  0=SELF (HEAD) 1=HUSBAND/WIFE 2=SON/DAUGHTER 3=FATHER/MOTHER 4=FATHER/MOTHER IN-LAW 5=GRANDFATHER/GRANDMOTHER 6=GRAND SON/DAUGHTER 7=SON-/DAUGHTER-IN-LAW 8=NEPHEW/NIECE 9=AUNT/UNCLE 10=BROTHER/SISTER 11=OTHER RELATIVE 12=NON-RELATIVE	3. What is the sex of the household member?  0=MALE 1=FEMALE	4. What is the age of the household member?	5. How many years of formal schooling have been completed by this household member?  <i>Be sure that the farmers has completed that level of schooling</i>  <i>If no schooling completed put zero</i>
	FIRST NAME	SECOND NAME	CODE	CODE	YEARS	NUMBER OF YEARS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

## SECTION 2 HOUSEHOLD ASSETS

Can you please tell us about the assets owned by all household members?

TABLE 2.1: AGRICULTURAL ASSETS

AGRIC. ASSET CODE	AGRICULTURAL ASSET	1. How many of these assets do you own?	2. What is the value of your total portion of the assets?
		<i>If partial ownership put fraction owned</i> NUMBER	<i>Consider the value if the asset was sold today</i> TOTAL BIRR
1	Plow		
2	Dongora		
3	Sickle		
4	Mencha		
5	Hoe/Gesso		
6	Harar spade		
7	Tractor		
8	Axe		
9	Machete/ Konchora		
10	Backpack sprayer		
11	Motorized backpack sprayer		
12	Chisel		
13	Kraal		
14	Stable		
15	Other _____		

TABLE 2.2 NON-AGRICULTURAL ASSETS

NON- AGRIC. ASSET CODE	NON-AGRICULTURAL ASSET	1. How many of these assets do you own?	2. What is the value of your total portion of the assets?
		<i>If partial ownership put fraction owned</i> NUMBER	<i>Consider the value if the asset was sold today</i> TOTAL BIRR
1	Thermos		
2	Radio		
3	Tape recorder		
4	TV		
5	Kerosene stove		
6	Kerosene lamp (Masho)		
7	Kerosene lamp (Fanos)		
8	Kerosene Lamp (Lamba)		
9	Bed: mattress		
10	Torch/Trika		
11	Stools (Berchuma)		
12	Chairs		
13	Table		
14	Bicycle		
15	Sewing machine		

**TABLE 2.3 PRIMARY RESIDENCE**

1. For your primary residence, what is the roof made of?	2. What is the floor made of?	3. What are the walls made of?	4. Are the walls painted?	5. Does the house have a latrine?	6. Does the house have electricity access?	7. How many rooms are there in your house for household members?	8. What type of water access does the house have?
1=TIN 2=GRASS/LEAVES/BAMBOO 3=WOOD/EARTH 4=OTHER (SPECIFY)	1=EARTH 2=BRICK 3=BOARD/WOODEN 4=CEMENT/TILE 5=OTHER (SPECIFY)	1=EARTH 2=BRICK 3=BOARD 4=CEMENT 5=STONE 6=OTHER (SPECIFY)	0=NO 1=YES	0=NO 1=YES	0=NO 1=YES		0=IN HOUSE/COMPOUND 1=NEARBY WELL/PUBLIC TAP <sup>1</sup> 2=DISTANT WELL/PUBLIC TAP 3=NEARBY RIVER, SPRING, POND 4=DISTANT RIVER, SPRING, POND
CODE	CODE	CODE	CODE	CODE	CODE	NUMBER OF ROOMS	CODE

<sup>1</sup> Nearby means that the source of water is within 1 hour distance round trip while distant means that the source of water takes more than 1 hour to be reached.

**TABLE 2.4 LIVESTOCK/ANIMALS**

ANIMAL CODE	LIVESTOCK/ ANIMALS	1. How many of these livestock /animals do you own at present?	2. If sold today, what would be the value of these livestock/animals?
		NUMBER	TOTAL BIRR
1	Beef cattle		
2	Dairy cattle		
3	Calf		
4	Heifer		
5	Oxen		
6	Bull		
7	Donkey		
8	Horse		
9	Mule		
10	Camel		
11	Goats		
12	Sheep		
13	Chicken		

**SECTION 3: ORGANIZATIONAL AFFILIATION**

Can you please tell us about the organizational affiliation of all household members?

**TABLE 3.1 HCS**

**1. Did you or any member of your HH participate in HCS' regular or multiplication seed program?**

0=NO (→2)   
1=YES (→3)

**2. Why didn't you participate with HCS?**

See code sheet NON-PARTICIPATION CODE

TABLE 3.2 →

3. How many years ago did you first start collaborating with HCS?  <i>Use 0 if started in 2002.</i>	4. Did you collaborate with the regular seed program?  0=NO 1=YES	5. Did you collaborate with the seed multiplication program?  0=NO 1=YES	6. Were any of the varieties you received from HCS new to you?  0=NO 1=YES	7. Was the seed you obtained from HCS of better quality than your own seed?  0=NO (→ 9) 1=YES (→ 8)	8. Why did you think the seed was better?  1=HIGHER GERMINATION RATE, 2=BETTER PEST OR DISEASE RESISTANCE 3=HIGHER YIELD 4=HIGHER MARKET VALUE 5=BETTER FOOD QUALITY 6=BETTER CROP RESIDUALS 7=IMPROVED SOIL ADAPTABILITY 8=EARLY MATURING 9=UNIFORM MATURITY 10= LATE MATURING/LONG SEASON 11= DORUGHT RESISTANT 12= OTHER (SPECIFY)  <i>List in order of importance. Maximum three options.</i>			9. Why did you start collaborating with HCS?  <i>See code sheet</i>	10. Are you still actively working with the project?  0=NO →11 1=YES→12		
					NUMBER OF YEARS	CODE	CODE			CODE	CODE

11. Why did you stop collaborating with HCS?  <i>See code sheet</i>	12. On average, how many times per year do or did you or someone in your household attend meetings, or workshops with HCS?	13. What types of assistance has HCS provided directly to your family? List in order of importance.  1=Sorghum seed provision 2=WHEAT SEED PROVISION 3=OTHER SEED PROVISION 4=TECHNICAL ASSISTANCE 5=INPUT PROVISION 6=TRAINING, WORKSHOP 7=OTHER (SPECIFY)					14. For your household, has HCS been beneficial?  0=NO 1=YES	15. Did you have any problem with repayment?  0=NO 1=YES
		STOP COLLABORATION CODE	NUMBER OF TIMES	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		

**TABLE 3.2 ORGANIZATIONAL CONTACTS (OTHER THAN HCS)**

**1. Have you or some other member of your family had contact with any technical assistance, extension service or outside organization in the last 10 years up to now?**

0=NO (→TABLE 3.3)  
1=YES (→2)

ORGA NIZA TION CODE	2. What is/was the name of the organization?  NAME	3. What type of organization?  1=NGO 2=GOVERNMENT 3=INTERNATIONAL ORGANIZATION 4=PRIVATE GROUP  CODE	4. Who participated or is participating from your family?  <i>Use code listed in the first column of Table 1.1 HH member code</i>  <i>If more than one family member participated use different rows per each.</i>  HH MEMBER CODE FROM TABLE 1.1	5. For how many years has this household member been active with this organization?  NUMBER OF YEARS	6. How many years ago did you quit working with this organization?  <i>If still active indicate</i> 0=STILL ACTIVE  NUMBER OF YEARS	7. What was/is the focus of the organization?  1=AGRICULTURE (→ 8) 2=HEALTH (→ SKIP 8) 3=EDUCATION (→SKIP 8) 4=WATER/SANITATION (→SKIP 8) 5=NATURAL RESOURCE CONSERVATION (→SKIP 8) 6=CREDIT PROVISION (→SKIP 8) 7=MICRO ENTERPRISE DEVELOPMENT (→SKIP 8) 8=INFRASTRUCTURE (→SKIP 8) 9=OTHER (SPECIFY) (→SKIP 8)  <i>Maximum of three focuses</i>  CODE			8. If the focus was/is agriculture, what were/are the primary activities of the organization?  1=SEED PROVISION 2=TECHNICAL ASSISTANCE 3=INPUT PROVISION 4=TRAINING 5=AGRICULTURAL CREDIT 6=NEW PRODUCTS 7=OTHER (SPECIFY)  CODE		
						1ST	2ND	3RD	1ST	2ND	3RD
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

**TABLE 3.3 ASSOCIATIONS**

**1. Does anyone in your household belong to any form of association or village group?**

0=NO (→TABLE 3.4)  
1=YES (→ 2)

ASSOCIATION CODE	2. What is the name of the association/ organization?	3. What type of associations/group?		4. Who participates from your family?	5. For how many years has the household member participated with this group?	6. In general, how often does this group meet?	7. Has the household member ever had a leadership role in this group?
	NAME	CODE		HH MEMBER CODE FROM TABLE 1.1	NUMBER OF YEARS	CODE	CODE
1							
2							
3							
4							
5							
6							
7							

**TABLE 3.4 PARTICIPATION, RELIGION, ETHNICITY, KINSHIP**

1. Has anyone in the household participated in public works in the community in the last three years? i.e building schools, roads, tree plantation etc..	2. Have you as a family exchanged labor with other households on a regular basis in the last three years?	3. Has anyone in the household ever provided assistance to neighbors in times of need in the last three years? i.e. food, seed, cash, loaned tools...	4. Do you exchange seeds with a group of farmers on a regular basis?	5. Is there any specific farmer you could get seeds from in times of emergency?	6. To what religious group do you belong?	7. With which ethnic/clan group do you identify?
CODE	CODE	CODE	CODE	CODE	CODE	CODE

**SECTION 4. LAND IDENTIFICATION****TABLE 4.1 TOTAL LAND OPERATED**

*We would like to ask you about all the land your household owns and operates. Can you please identify the different plots of land that your household has operated since January 2002?*

	Number of plots		Total Hectares of all plots	
1. In total, how many plots and hectares of land do you own? <i>Owned includes land in which the household has long-term usufruct rights</i>	(A1)		(A2)	
2. How many of these plots and how many hectares are rented or loaned out to other farmers? <i>If only a portion of a plot is rented or loaned out treat it as a separate plot and change the number of plots in A1 accordingly</i>	(A3)	—	(A4)	—
3. How many additional plots did you use or rent in but not own since the beginning of 2002? And how many hectares?	(A5)	+	(A6)	+
4. Total plots operated since January 2002	(A7)	=	(A8)	=
	<i>Check that</i> $\frac{A7}{A3+A5} = \frac{A1}{A1-A3+A5}$	_____	<i>Check that</i> $\frac{A8}{A2+A4+A6} = \frac{A2}{A2-A4+A6}$	_____



**TABLE 4.2 OWNED PLOTS: DESCRIPTION**

*Let's now move into plots details. Can you please describe all owned plots that we just identified in table 4.1?*

1. Plot Number		2. How many hectares is this plot?	3. Is this plot rented out or loaned out to other farmers? <i>If the plot is only partially rented/loaned then it should be treated as a separate plot here and in table 4.1</i>		4. Is this plot irrigated?	5. What is the texture of the soil of this plot?	6. What is the color of the soil of this plot?	7. How fertile is the soil on this plot?	8. What is the altitude of this plot relative to the village?	9. What is the slope of this plot?	10. How far away is this plot from your home?
<i>Write down plots' names if farmers give any or just tick in the row.</i>		HECTARES (B2)	0=NO 1=YES	<i>If rented out rewrite the size of plot here</i>	0=NO 1=YES	1=CLAY 2=LOAM 3=SAND 4=SANDY/LOAM 5=SILT	1=BLACK 2=BROWN 3=RED 4=RED/BROWN 5=GREY/BROWN 6=GREY	1=POOR 2=MODERATE 3=GOOD	1=LOWER 2=SAME 3=HIGHER	1=TERRACED 2=GENTLE SLOPE 3=MODERATE SLOPE 4=STEEP SLOPE 5=DEPRESSION	TIME REQUIRED TO WALK
PLOT CODE	NAMES (B1)										
<b>OWNED</b>	1	.	.	.							
	2	.	.	.							
	3	.	.	.							
	4	.	.	.							
	5	.	.	.							
	6	.	.	.							
	7	.	.	.							
	8	.	.	.							
	9	.	.	.							
<i>Check that the total number of rows filled in B1=A1.</i>		<i>Check that the sum of B2=A2</i>	<i>Check that the sum of this column (B3)=A3</i>	<i>Check that the sum of B4=A4</i>	<i>If farmers use or rent in other plots than the ones they own → to Table 4.3., otherwise → to Section 5.</i>						
_____		_____	_____	_____							

*Complete this table only if the HH reported rented in or borrowed land in table 4.1 question n. 3.*

**TABLE 4.3 PLOTS USED AND RENTED (NOT OWNED): DESCRIPTION**

*Can you please describe all the plots you use or rent but not own as identified in table 4.1?*

1. Plot Number		2. How many hectares is this plot?	3. Is this plot irrigated?	4. What is the texture of the soil of this plot?	5. What is the color of the soil of this plot?	6. How fertile is the soil on this plot?	7. What is the altitude of this plot relative to the village?	8. What is the slope of this plot?	9. How far away is this plot from your home?
<i>Write down plots' names if farmers give any or just tick in the row</i>			0=NO 1=YES	1=CLAY 2=LOAM 3=SAND 4=SANDY/LOAM 5=SILT	1=BLACK 2=BROWN 3=RED 4=RED/BROWN 5=GREY/BROWN 6=GREY	1=POOR 2=MODERATE 3=GOOD	1=LOWER 2=SAME 3=HIGHER	1=TERRACED 2=GENTLE SLOPE 3=MODERATE SLOPE 4=STEEP SLOPE 5=DEPRESSION	TIME REQUIRED TO WALK
PLOT CODE	NAMES (B5)	HECTARES (B6)	CODE	CODE	CODE	CODE	CODE	CODE	MINUTES
10		.							
11		.							
12		.							
13		.							
14		.							
15		.							
16		.							
17		.							
18		.							
<i>Check that the total number. of rows filled in B5=A5</i>		<i>Check that the sum of B6=A6</i>							
_____		_____							

Complete this table only if the HH reported rented in or borrowed land in table 4.1 question n. 3.

**TABLE 4.4 LAND TENURE – AND CONTRACTS IN PRODUCTION**

*Let's discuss further the plots you rent or use but do not own as identified in the previous section (table 4.3).*

1. Plot number and name if available  <i>Please list all plots as identified in table 4.3. The plot code/number used in the previous section should remain the same.</i>		2. Who is the owner of this plot?	3. For what period is the contract for this plot?	4. What type of contract regulates the land you use/rent?	<i>If Fixed Rent</i>			<i>If Share crop</i>						<i>If Borrowed or other contracts</i>		
					5. Is the rent in kind or in cash?	6. What is the amount you have to pay per annum?  → SKIP 7-12		7. Who decides on what to plant?	8. What is the share of seeds provided by renter and by the owner?		9. What is the share of other inputs (fertilizers, pesticides, traction)?		10. What is the share of the harvest?  → SKIP 11-12		11. What do you offer to the owner for using his/her land?	12. Do you expect to keep the land for foreseeable future?
PLOT CODE	NAME	CODE	CODE	CODE	CODE	BIRR	KG	CODE	RENTER %	OWNER %	RENTER %	OWNER %	RENTER %	OWNER %	CODE	CODE
10																
11																
12																
13																
14																
15																
16																
17																
18																

**SECTION 5: CROP PRODUCTION**

**TABLE 5.1 FARM PRODUCTION**

We are now focusing just on operated land as identified in the previous section.

<p><i>Write plots' codes using the same plot codes identified in table 4.2 and 4.3. Make sure the farmer knows which plot you are talking about.</i></p> <p>PLOT CODE</p>	<p>1. What annual crops did you plant since January 2002 or perennial crop have you maintained on each operated plot we discussed in the previous section?</p> <p><i>See code sheet for crop code.. Do not use variety code.</i></p> <p>CROP CODE</p>	<p>2. What is the share of this plot that you used for this crop?</p> <p><i>If all of plot, put 100. If intercropped estimate % share</i></p> <p>PERCENT</p>	<p>3. Is this crop intercropped with something else?</p> <p>0=NO 1=YES</p> <p>CODE</p>	<p>4. When did you plant this crop?</p> <p>0=BEFORE JANUARY 1=JANUARY 2=FEBRUARY.... 12=DECEMBER</p> <p>MONTH</p>	<p>5. Is it an annual or a perennial crop?</p> <p>1=ANNUAL→7 2=PERENNIAL →6</p> <p>CODE</p>	<p>6. If perennial, How many times have you harvested this crop since January 2002?</p> <p><i>→ Skip 7-9</i></p> <p>NUMBER OF TIMES</p>	<p>7. If annual, when did you last harvest it or when do you expect to harvest it?</p> <p>0=CROP FAILED (→8) 1=JANUARY 2=FEBRUARY .... 12=DECEMBER 13=JANUARY 2003.....</p> <p><i>If crop failed →8 otherwise → 9</i></p> <p>MONTH/EXPECTED MONTH</p>	<p>8. Why did the crop fail?</p> <p>1=NOT ENOUGH RAIN 2=TOO MUCH RAIN 3=RAIN CAME TO LATE 4=RAIN STOPPED TOO EARLY 5=CROP DID NOT GROW 6=VERY BAD QUALITY SEED 7=OTHER</p> <p>CODE</p>	<p>9. Is it a Belg, a Meher or a long season crop?</p> <p>1=BELG 2=MEHER 3=LONG SEASON CROP</p> <p>CODE</p>

**TABLE 5.2 SORGHUM PRODUCTION: VARIETIES PLANTED BY PLOT**

*We are now going to focus on sorghum and wheat production in particular. Let's start with sorghum.*

*(Go back to table 5.1, pick up just plots with sorghum and write them down in the first column with the same code used in table 5.1)*

*You said that on the following plots you are growing sorghum. Can you please detail which variety of sorghum are you growing in each plot or share of the plot?*

1. Plot	2. What variety or varieties of sorghum did you plant on this plot since January 2002?		3. In what month did you plant it?	4. How much seed was sowed for this variety on this plot?	5. How much of your own seed of this variety did you plant on this plot?	6. How much seed of this variety did you purchase for this plot (including delayed payment)?	7. How much did you pay for the purchased seed of this variety?		8. Where did you purchase the seed for this variety?	9. How much seed of this variety did you obtain from another source (as a gift, in exchange for labor, etc.) for this plot?	10. Where did you obtain the seed for this variety?	11. What did you have to provide in return for this seed?	CHECK TO VERIFY THAT COLUMNS 5+6+9= 4
<i>Refer to table 5.1 and select plots where farmers are growing sorghum.</i>	<i>See code sheet</i>		1=JANUARY 2=FEBRUARY ... 12=DECEMBER		<i>If none then put 0</i>	<i>If none then put 0 → 9</i>	CASH	KIND	<i>See code sheet</i>	<i>If none then put 0 → last column</i>	<i>See code sheet</i>	1=NOTHING 2=SEED AT END OF SEASON 3=SEED AT FUTURE DATE 4=GRAIN 5=LABOR 6=OTHER GIFT	
PLOT CODE	NAME	VARIETY CODE	CODE	KG	KG	KG	TOTAL BIRR	KG	SOURCE CODE	KG	SOURCE CODE	CODE	CHECK (X)

**TABLE 5.3 SORGHUM PRODUCTION: INPUTS**

*Please tell us about the inputs used in each stage of production for each plot of sorghum.*

1. Plot	A. LAND PREPARATION										
	2. In what month did you prepare the land for this plot?  0=BEFORE JANUARY 1=JANUARY 2=FEBRUARY... 12=DECEMBER	3. How many days of person labor were used for land preparation?	4. Were any of these days paid?  0=NO→6 1=YES	5. How much adult male, adult female and child labor in total was paid (in birr or in kind) for land preparation?			6. How much adult male, adult female and child family or exchange (unpaid) labor in total was used for land preparation?  <i>If none put 0</i>			7. How many days of animal labor were used for land preparation?  <i>If none put 0</i>	8. How many days of tractor services were used for land preparation?  <i>If none put 0</i>
PLOT CODE	CODE	TOTAL NUMBER OF PERSON DAYS	CODE	ADULT MALE NO OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) NO OF DAYS	ADULT MALE NO OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) NO OF DAYS	NUMBER OF DAYS	NUMBER OF DAYS

1. Plot	B. PLANTING									
	2. How many days of person labor were used for planting?	3. Were any of these days paid?  0=NO→5 1=YES	4. How much adult male, adult female and child labor in total was paid (in Birr or in kind) for planting?			5. How much adult male, adult female and child family or exchange (unpaid) labor in total was used for planting?  <i>If none put 0</i>			6. How many days of animal labor were used for planting?  <i>If none put 0</i>	7. How many days of tractor services were used for planting?  <i>If none put 0</i>
PLOT CODE	TOTAL NUMBER OF PERSON DAYS	CODE	ADULT MALE N OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) N OF DAYS	ADULT MALE N OF DAYS	ADULT FEMALE N OF DAYS	CHILD (<14) NUMBER OF DAYS	NUMBER OF DAYS	NUMBER OF DAYS

**TABLE 5.4 WHEAT PRODUCTION: VARIETIES PLANTED BY PLOT***We are now going to focus on wheat.**(Go back to table 5.1, pick up just plots with wheat and write them down in the first column with the same code used in table 5.1)**You said that on the following plots you are growing wheat. Can you please detail which variety of wheat are you growing in each plot or share of the plot?*

1. Plot	2. What variety or varieties of wheat did you plant on this plot since January 2002?		3. In what month did you plant it?	4. How much seed was sowed for this variety on this plot?	5. How much of your own seed of this variety did you plant on this plot?	6. How much seed of this variety did you purchase for this plot (including delayed payment)?	7. How much did you pay for the purchased seed of this variety?		8. Where did you purchase the seed for this variety?	9. How much seed of this variety did you obtain from another source (as a gift, in exchange for labor, etc.) for this plot?	10. Where did you obtain the seed for this variety?	11. What did you have to provide in return for this seed?	CHECK TO VERIFY THAT COLUMN 5+6+9= 4
							CASH	KIND					
PLOT CODE	NAME	VARIETY CODE	CODE	KG	KG	KG	TOTAL BIRR	KG	SOURCE CODE	KG	SOURCE CODE	CODE	CHECK (X)

**TABLE 5.5 WHEAT PRODUCTION: INPUTS**  
*Please tell us about the inputs used in each stage of production for wheat.*

1. Plot	A. LAND PREPARATION										
	2. In what month did you prepare the land for this plot?  0=BEFORE JANUARY 1=JANUARY 2=FEBRUARY... 12=DECEMBER	3. How many days of person labor were used for land preparation?	4. Were any of these days paid?  0=NO→6 1=YES	5. How much adult male, adult female and child labor in total was paid (in birr or in kind) for land preparation?			6. How much adult male, adult female and child family or exchange (unpaid) labor in total was used for land preparation?  <i>If none put 0</i>			7. How many days of animal labor were used for land preparation?  <i>If none put 0</i>	8. How many days of tractor services were used for land preparation?  <i>If none put 0</i>
PLOT CODE	CODE	TOTAL NUMBER OF PERSON DAYS	CODE	ADULT MALE NO OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) NO OF DAYS	ADULT MALE NO OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) NO OF DAYS	NUMBER OF DAYS	NUMBER OF DAYS

1. Plot	B. PLANTING									
	2. How many days of person labor were used for planting?	3. Were any of these days paid?  0=NO→5 1=YES	4. How much adult male, adult female and child labor in total was paid (in Birr or in kind) for planting?			5. How much adult male, adult female and child family or exchange (unpaid) labor in total was used for planting?  <i>If none put 0</i>			6. How many days of animal labor were used for planting?  <i>If none put 0</i>	7. How many days of tractor services were used for planting?  <i>If none put 0</i>
PLOT CODE	TOTAL NUMBER OF PERSON DAYS	CODE	ADULT MALE N OF DAYS	ADULT FEMALE NO OF DAYS	CHILD (<14) N OF DAYS	ADULT MALE N OF DAYS	ADULT FEMALE N OF DAYS	CHILD (<14) NUMBER OF DAYS	NUMBER OF DAYS	NUMBER OF DAYS



**SECTION 6. SEED SYSTEMS AND VARIETY DESCRIPTIONS**

**TABLE 6.1 SORGHUM VARIETIES**

*Please tell us more about the sorghum varieties you have planted this year.*

1. List sorghum varieties planted this year since January 2002.			2. What characteristics of this variety do you like most?			3. What characteristics of this variety don't you like?			4. Do you consider this variety improved, traditional, or mixed?	5. For how many years have you been planting this variety?	6. Do you plant this variety every year even under different rainy conditions?	7. Where did you hear about this variety the first time?	8. Who decided about planting this variety?	9. Have you always been able to get the seed of this variety when you wanted it?	10. Where did you get the seed for this variety the first time?	11. In the years you've planted this variety, have you renewed it or replaced it from sources other than your own harvest?	12. What is the main reason you decided to replace the seed for this variety?	13. What was the primary source you used to renew or replace the variety?
<i>Please refer to sorghum varieties listed in table 5.2 question 2</i>			<i>Maximum three options</i> <i>See code sheet</i>			<i>Maximum three options</i> <i>See code sheet</i>			1=IMPROVED 2=TRADITIONAL 3=MIXED	<i>We are referring to variety and not seeds</i>	0=NO 1=YES	<i>See code sheet</i>	1=MALE 2=FEMALE 3=BOTH	0=NO 1=YES	<i>See code sheet</i>	0=NO (→14) 1=YES (→12)	1=POOR SEED QUALITY 2=REDUCED YIELD 3=LOST STORED SEED 4=INCREASED SUSCEPTIBILITY TO PEST 5=NO RAIN/DID NOT GERMINATE 6=OTHER (SPECIFY)	<i>See code sheet</i>
SORGHUM VARIETY			VARIETY ADVANTAGES CODE			VARIETY DISADVANTAGES CODE			CODE	NUMBER OF YEARS	CODE	SOURCE CODE	CODE	CODE	SOURCE CODE	CODE	CODE	SOURCE CODE
NO.	NAME	CODE	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>										
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

**TABLE 6.1 SORGHUM (continued)**

			14. Did you retain, renew or use a combination of both retained and new seeds of this variety last planting season?  <i>List AGAIN the variety name and code of sorghum as listed in the previous page</i>	NOT RETAINED (RENEWED) LAST PLANTING SEASON						RETAINED LAST PLANTING SEASON				
				15. How did you acquire it?	16. How far away from your home is the seed source?	17. How did you transport the seed?	18. Is there a source you would prefer to get the seed from?	19. What is the preferred alternative source?	20. Why didn't you use this alternative source?	21. Who selects the seeds for this variety?	22. When do you select the seed for this variety?	23. What are the physical characteristics the selector looks at in selecting the seed		
			1=RENEWED→15 2=RETAINED→21 3=BOTH→15+21	1=PURCHASED 2=LOAN 3=EXCHANGE 4=GIFT 5=OTHER (SPECIFY)	TIME REQUIRED TO WALK	1=OWNED DONKEY 2=HIRED DONKEY 3=CARRYING WHILE WALKING 4=OTHER (SPECIFY)	0=NO → 21 (if retained seed) otherwise skip 19-23 1=YES→19	<i>See code sheet</i>	1=TOO EXPENSIVE 2=TOO FAR/ COULDN'T TRANSPORT 3=COULDN'T GET CREDIT 4=DIDN'T KNOW THE RIGHT PERSON 5=WAS UNABLE TO PAY LOAN BACK 6=OTHER (SPECIFY)  <i>If retained some seed →21 otherwise →skip 21-23</i>	1=MALE 2=FEMALE 3=BOTH	1=IN THE FIELD/ BEFORE HARVEST 2=AT HARVEST 3=AFTER HARVEST/AT THRESHING 4=DURING STORAGE	<i>Maximum three options See code sheet</i>		
NO.	NAME	CODE	CODE	CODE	MINUTES	CODE	CODE	SOURCE CODE	CODE	CODE	CODE	PHYSICAL CHARACTERISTICS CODE		
												1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														

**TABLE 6.2 WHEAT VARIETIES***Please tell us more about the wheat varieties you have planted this year.*

1. List wheat varieties planted this year since January 2002.			2. What characteristics of this variety do you like most?			3. What characteristics of this variety don't you like?			4. Do you consider this variety improved, traditional, or mixed?	5. For how many years have you been planting this variety?	6. Do you plant this variety every year even under different rainy conditions?	7. Where did you hear about this variety the first time?	8. Who decided about planting this variety?	9. Have you always been able to get the seed of this variety when you wanted it?	10. Where did you get the seed for this variety the first time?	11. In the years you've planted this variety, have you renewed it or replaced it from sources other than your own harvest?	12. What is the main reason you decided to replace the seed for this variety?	13. What was the primary source you used to renew or replace the variety?	
<i>Please refer to wheat varieties listed in table 5.2 question 2</i>			<i>Maximum three options See code sheet</i>			<i>Maximum three options See code sheet</i>			1=IMPROVED 2=TRADITIONAL 3=MIXED	<i>We are referring to variety and not seeds</i>	0=NO 1=YES	<i>See code sheet</i>	1=MALE 2=FEMALE 3=BOTH	0=NO 1=YES	<i>See code sheet</i>	0=NO (→14) 1=YES (→12)	1=POOR SEED QUALITY 2=REDUCED YIELD 3=LOST STORED SEED 4=INCREASED SUSCEPTIBILITY TO PEST 5=NO RAIN/DID NOT GERMINATE 6=OTHER (SPECIFY)	<i>See code sheet</i>	
NO.	WHEAT VARIETY		VARIETY ADVANTAGES CODE			VARIETY DISADVANTAGES CODE			CODE	NUMBER OF YEARS	CODE	SOURCE CODE	CODE	CODE	SOURCE CODE	CODE	CODE	SOURCE CODE	
	NAME	CODE	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>											
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

**TABLE 6.2 WHEAT (continued)**

			14. Did you renew, retain or use a combination of both retained and new seeds of this variety last planting season?  1=RENEWED→15 2=RETAINED→21 3=BOTH→15+21	NOT RETAINED (RENEWED) LAST PLANTING SEASON						RETAINED LAST PLANTING SEASON				
				15. How did you acquire it?  1=PURCHASED 2=LOAN 3=EXCHANGE 4=GIFT 5=OTHER (SPECIFY)	16. How far away from your home is the seed source?  TIME REQUIRED TO WALK	17. How did you transport the seed?  1=OWNED DONKEY 2=HIRED DONKEY 3=CARRYING WHILE WALKING 4=OTHER (SPECIFY)	18. Is there a source you would prefer to get the seed from?  0=NO → 21 (if retained seed) otherwise skip 19-23 1=YES→19	19. What is the preferred alternative source?  <i>See code sheet</i>	20. Why didn't you use this alternative source?  1=TOO EXPENSIVE 2=TOO FAR/ COULDN'T TRANSPORT 3=COULDN'T GET CREDIT 4=DIDN'T KNOW THE RIGHT PERSON 5=WAS UNABLE TO PAY LOAN BACK 6=OTHER (SPECIFY)  <i>If retained some seed →21 otherwise →skip 21-23</i>	21. Who selects the seeds for this variety?  1=MALE 2=FEMALE 3=BOTH	22. When do you select the seed for this variety?  1=IN THE FIELD/ BEFORE HARVEST 2=AT HARVEST 3=AFTER HARVEST/AT THRESHING 4=DURING STORAGE	23. What are the physical characteristics the selector looks at in selecting the seed  <i>Maximum three options See code sheet</i>		
NO.	NAME	CODE	CODE	CODE	MINUTES	CODE	CODE	SOURCE CODE	CODE	CODE	CODE	PHYSICAL CHARACTERISTICS CODE		
												1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														

**TABLE 6.3: VARIETIES PLANTED IN THE PAST UNDER DIFFERENT RAINY CONDITIONS**

1. Did you plant different varieties of sorghum and wheat other than the ones you have planted this year under different rainy conditions over the past five years?

0=NO (→ TABLE 6.4)  
 1=YES (→ 2)

2. Can you list these different varieties of (name of crop) that you would have planted under different conditions?  <i>See code sheet varieties code</i>		3. Under what kind of rainy conditions did you plant this variety?		4. Do you consider this variety improved, traditional, or mixed?	5. Where did you hear about this variety the first time?	6. Have you always been able to get the seed of this variety when you wanted it?	7. Where did you get the seed for this variety the first time?	8. Where did you get the seed for this variety last time you planted it?	9. In the years you've planted this variety, have you renewed or replaced it from sources other than your own harvest?	10. What is the main reason you decided to replace the seed?	11. What was the primary source you used to renew or replace the variety?
		STARTING TIME OF RAIN	QUANTITY OF RAIN	1=IMPROVED 2=TRADITIONAL 3=MIXED	<i>See code sheet</i>	0=NO 1=YES	<i>See code sheet</i>	<i>See code sheet</i>	0=NO (→TABLE 6.4) 1=YES (→10)	1=POOR SEED QUALITY 2=REDUCED YIELD 3=LOST STORED SEED 4=INCREASED SUSCEPTIBILITY TO PEST 5=NO RAIN/DID NOT GERMINATE 6=OTHER (SPECIFY)	<i>See code sheet</i>
SORGHUM AND WHEAT VARIETY CODES		CODE	CODE	CODE	SOURCE CODE	CODE	SOURCE CODE	SOURCE CODE	CODE	CODE	SOURCE CODE
<b>SORGHUM</b>	1										
	2										
	3										
	4										
	5										
CODE=1	6										
<b>WHEAT</b>	1										
	2										
	3										
	4										
	5										
	CODE=2	6									

**TABLE 6.4: VARIETIES THAT YOU WOULD LIKE TO PLANT**

1. Are there any varieties of sorghum and/or wheat that you would like to plant or are planning to plant?

0=No (→ TABLE 6.5)  
1=YES (→ 2)

2. Which varieties of sorghum or wheat would you like to plant if you had the chance?		3. What are the three main reasons why you would like to plant this variety?			4. Why didn't you plant this variety?	5. How do you know about this variety?
<i>See code sheet</i>		<i>See code sheet</i> <i>Maximum three reasons</i>			1=COULDN'T FIND 2=THERE'S NO AVAILABILITY HERE NEED TO GO FAR AWAY 3=TOO EXPENSIVE 4=DON'T HAVE ENOUGH LAND 5=I DIDN'T KNOW ABOUT IT BEFORE PLANTING;	<i>See code sheet</i>
SORGHUM AND WHEAT VARIETY NAME CODE		1 <sup>ST</sup> REASON	2 <sup>ND</sup> REASON	3 <sup>RD</sup> REASON	CODE	SOURCE CODE
Sorghum CODE=1	1					
	2					
	3					
	4					
	5					
	6					
Wheat CODE=2	1					
	2					
	3					
	4					
	5					
	6					

**TABLE 6.5 RAINFALL PATTERN.**

1. According to your expectations, did the first rain come on time to the fields this year (2002) for Belg and for Meher?		2. Was there enough rain on your field at the beginning of Belg and Meher planting season?		3. How do you judge this year production conditions as regard to the rain?
0=NO RAIN 1=EARLY 2=NORMAL 3=LATE		0=NONE 1=LITTLE 2=NORMAL 3=EXCESSIVE		1=VERY BAD 2=BAD 3=MEDIUM 4=GOOD 5=VERY GOOD
BELG	MEHER	BELG	MEHER	
CODE	CODE	CODE	CODE	CODE

# END OF VISIT 1: Thank the farmer!

## Checklist

*Put an X in each cell and sign below*

<b>Item to check</b>	<b>Enumerator</b>	<b>Team leader</b>
Did you write the date, time the interview began and the time completed on the cover page using the Gregorian calendar and Western time?		
Did you completely fill Tables 2.1, 2.2, 2.3, 2.4, 3.4 and 6.5 putting zeroes when appropriate?		
Did you complete Tables 3.1, 3.2, 3.3, 6.3 and 6.4 if the answer to question 1 was YES? Did you leave these tables blank if the answer to question 1 was NO?		
Did you complete the checks on Tables 4.1, 4.2 and if rented in plots 4.3?		
Did you convert timad and other local area measures into hectares in Tables 4.1, 4.2, 4.3, ?		
Did you fill Tables 4.3 and 4.4 only if there was a rented in or borrowed plot?		
Did you check the last column of Table 5.2 and 5.4 to confirm that the total KGs of seed added up?		
Did you convert local measures of weight into KGs, particularly in Tables 5.2 and 5.4?		
If you used the code "other" for a question, did you write the answer in the appropriate cell, particularly for the varieties in Tables 5.2 and 5.4?		
Does the number of person days in question 3 of Tables 5.3A and 5.5A match the person days reported in questions 5 and 6? Does the number of person days in question 2 of Tables 5.3B and 5.5B match the person days reported in questions 4 and 5?		

Signature verifying the accuracy of the survey

\_\_\_\_\_  
Enumerator

\_\_\_\_\_  
Team leader

## FAO-Netherlands Partnership Programme Household Survey, VISIT 1: August 2002, CODE SHEET

<i>Non-participation code</i>	<i>Sorghum variety codes</i>			<i>Wheat variety codes</i>		<i>Months</i>
1= DIDN'T KNOW ABOUT IT 2= WAS NOT PERMITTED TO JOIN 3= WAS NOT INTERESTED 4= TOO MANY PARTICIPANTS 5= DIDN'T HAVE ENOUGH LAND 6= DIDN'T LIKE THEIR SEEDS 7= DIDN'T LIKE THEIR VARIETIES 8= TOO MANY MEETINGS 9= OTHER (SPECIFY)	01= ABDELOTA 'ALAA' 02= AHMED ISEE 03= ALISO 04= AMAJIGTA 05= CHAALEE 06= CHEKORE 07= DASLEE 08= DIMA 09= DINI 10= FENDISHA 11= FESHE 12= FILATTA 13= GAMBELLA (MV) 14= GELDI 15= IS 9302 (MV) 16= JAMMAL ABDALLA 17= MASUGI ADII 18= MASUGI DAALECH	19= MASUGI DIIMA 20= MEKO (IMPROVED) 21= MESENGO 22= MUYERA 23= MUYERA ALISO 24= MUYERA CHEKORE 25= MUYERA RED 26= MUYRA DINI 27= QILLEE 28= QIRIMINDAHI 29= QIRIMINDAHI 'BLUE' 30= QIRIMINDAHI 'ORANGE' 31= QIRIMINDAHI 'RED' 32= SARUDE (MV) 33= SARUDE ADII (MV) 34= SARUDE DIIMA (MV) 35= TEJJO	36= WACHEELA 37= WAHELU 38= WORABI 39= YEMENI 40= 76 T1#23 (MV) 41= OTHER (SPECIFY)	1= BOOHAI 2= COCORIT-71 3= DERESSELIGN 4= ENKOY 5= FETAN 6= GERARDO 7= HAR 604 (GALAMA) 8= HAR 710 (WABE) 9= HAR 1407 (TUSIE) 10= HAR 1522 11= HAR 1595 12= HAR 1685 (KUBSA) 13= HAR 1668 (SHINNA) 14= MAMBA 15= PAVON 76 16= OTHER (SPECIFY)	0= BEFORE JANUARY 2002 1= JANUARY (TIR) 2= FEBRUARY (YEKATIT) 3= MARCH (MEGABIT) 4= APRIL (MIAZIA) 5= MAY (GINBOT) 6= JUNE (SENIE) 7= JULY (HAMLE) 8= AUGUST (NELASIE) 9= SEPTEMBER (MESKEREM) 10= OCTOBER (TIKMET) 11= NOVEMBER (HIDAR) 12= DECEMBER (TAHISAS)	
<i>Participation code</i>						
1= BETTER QUALITY SEEDS 2= COULDN'T GET SEEDS FROM OTHER SOURCES 3= BETTER VARIETY 4= GOOD INTEREST RATE 5= BETTER HARVEST 6= BETTER RESISTANCE TO STRESS 7= OTHER (SPECIFY)						
<i>Stop collaboration</i>	<i>Source code</i>	<i>Physical characteristics</i>		<i>Variety advantages</i>	<i>Variety disadvantages</i>	
1= REACHED THE MAXIMUM AMOUNT OF TIME ALLOWED 2= COULD NOT REPAY THE LOAN 3= FOUND BETTER VARIETY 4= FOUND BETTER QUALITY SEEDS 5= TECHNICAL ASSISTANCE WAS TOO SCARCE 6= DIDN'T LIKE THE QUALITY OF SEEDS 7= DIDN'T LIKE THE VARIETY 8= THE HARVEST WAS TOO SCARCE 9= NOT INVITED FOR FURTHER PARTICIPATION 10= OTHER (SPECIFY)	1= RETAINED/FAMILY HERITAGE 2= RELATIVE 3= FRIEND/NEIGHBOR SAME VILLAGE 4= FRIEND/ACQUAINTANCE OTHER VILLAGE 5= REGULAR SEED SUPPLIER 6= VILLAGE MARKET 7= OTHER MARKET 8= GOVERNMENT EXTENSION PACKAGE 9= GOVERNMENT SUPPORT 10= LANDOWNER ( <i>IF RENTED LAND</i> ) 11= HCS 12= LWF 13= CARE 14= CISP 15= OTHER NGOS; 16= OTHER (SPECIFY)	1= SIZE OF HEADS 2= COLOUR 3= HEIGHT OF PLANT 4= SIZE OF SEEDS 5= COMPACTNESS OF THE HEAD 6= NOT AFFECTED BY PEST/DISEASE 7= NOT ATTACKED BY BIRDS 8= NOT AFFECTED BY WEEDS 9= OWN/OWNLESS 10= BREAD QUALITY 11= LODGING/NONLODGING 12= TILLERING 13= WEIGHT OF HEAD 14= HEAD TYPE-LOOSE/COMPACT 15= OTHER (SPECIFY)		0= NO ADVANTAGES 1= GOOD YIELD IN GRAIN 2= GOOD YIELD IN RESIDUALS 3= GOOD FODDER QUALITY 4= GOOD GRAIN QUALITY 5= TASTE OF FOOD, CONSUMPTION QUALITY 6= COOKING OR PROCESSING QUALITY 7= GOOD MARKET ACCEPTANCE 8= RESISTANCE TO DROUGHT 9= RESISTANCE TO FROST 10= RESISTANCE TO PEST 11= DISEASE RESISTANCE 12= WEEVIL RESISTANT IN STORAGE 13= RESISTANT TO BIRD ATTACK 14= GOOD ADAPTABILITY 15= EASY TO THRESH 16= EARLY MATURITY 17= LATE MATURITY 18= UNIFORM MATURITY 19= OTHER (SPECIFY)	0= NO DISADVANTAGES 1= BAD YIELD IN GRAIN 2= BAD YIELD IN RESIDUALS 3= BAD FODDER QUALITY 4= BAD GRAIN QUALITY 5= BAD TASTE OF FOOD AND CONSUMPTION QUALITY 6= COOKING OR PROCESSING QUALITY 7= BAD MARKET ACCEPTANCE 8= NOT RESISTANT TO DROUGHT 9= NOT RESISTANT TO FROST 10= NOT RESISTANT TO PEST 11= NOT RESIST TO DISEASE 12= NOT WEEVIL RESISTANT IN STORAGE 13= NOT RESISTANT TO BIRDS ATTACK 14= POOR ADAPTABILITY 15= DIFFICULT TO THRESH 16= LATE MATURITY 17= EARLY MATURITY 18= NOT UNIFORM MATURITY 19= OTHER (SPECIFY)	
<i>Crop Codes</i>				<i>Conversion factors</i>		
1= SORGHUM 2= WHEAT 3= MAIZE 4= BARELY 5= HARICOT BEAN 6= CHICK PEA 7= MILLET 8= TEFF 9= CHAT 10= FOREST	11= PASTURE OR GRAZING 12= COFFEE 13= FRUIT 14= VEGETABLES 15= SUGARCANE 16= OTHER (SPECIFY)	1 HECTARE=8 TIMADS 1 SMALL KUNNA=5 KG 1 LARGE KUNNA (SEFI)=25 KG 1 TANIK=20 KG				