

**Research on Land Restoration & Exclosure Forage Improvement
Household-Level Survey in Amhara Region, Ethiopia (May, 2017)**

[Note to Enumerator] Please ask the farmer household head the following questions. If s/he is not available, please ask the most influential person in the household besides the head (such as the spouse or a child of the head). If either the household head, or the most influential person is not available, do not continue the survey, instead, randomly select other household in the same village and replace.

The purpose of this research is to promote adoption of new land restoration and forage improvement technologies within the selected exclosure. We will use your responses to analyze the overall characteristics of agricultural households with special focus to exclosure management and utilization in this region. The results of this survey will be utilized to improve the livestock productivity among the selected exclosure group users in particular and the welfare of households in this region in general.

	Name	Day	Month	Year
Interviewer(enumerator)				
Respondent				
Household head				

1. Household demography

1.1. Household home stead GPS Coordinates			
Woreda CODE: (1) BahirDar Zuria, (2) Dangila Zuria, (3) Mecha, (4) North Achefer, (5) Sekela, (6) South Achefer			
Woreda _____	Kebele _____	Watershed _____	Exclosure _____
GPS coordinates farm homestead Latitude (N/S): _____	Longitude (E/W): _____	Elevation (altitude, m): _____	Distance from woreda town (walking minute/hrs) _____
1.2 Household head: (if the household head is not available someone else ≥18 years old being knowledgeable and living in the household can respond)			
A. Gender _____ Male – Female	B. Age of hh head _____	C. Highest class attended in school _____	D. Distance from exclosure (walking minute/hrs) _____
1.2.1. If the respondent is not household head:			
E. Gender _____ Male – Female	F. Age _____	G. Highest class attended in school _____	H. Relation to hh head _____

1.3 Household members and their level of education: How many people live and eat in this household? Number by age class and gender (including household head). We consider someone a member of the household if they usually live and eat in the household for at least one month in the last 12 months. Thus, any son or daughter who is living outside the house (for example, in a different village or town) is not a member of the household.

No	Full name	Relationship to HH head (1)-Wife (2)-Husband (3)-Children (4)-Grand father (5)-Grand mother (6)-Adopted (7)-Extended relatives (8)-Others	Age	Gender (1) Male (2) Female	Highest class attended: 1,2,3,4,5,6,7,8,9,10 (11)-10+1 (12)-10+2 (13)-10+3 & Diploma (14)-Degree (15)-MSc & above (16)- RW only (17)- None
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					

2. Household land and livestock holding and use

2.1. How many hectares of land does your household own: Land for which you have a land certificate (including crop land, grazing land, wood/fruit tree planted, fallow, and rented out land)

No.	2.1.1. Household land holding (ha)		2.1.2. Household livestock holding (numbers)		
	Land use type	Land allocated In (<i>timad</i> or ha)	Livestock species	Number (adults)	Number (young)
1	Food crops		Ploughing oxen		NA
2	Fodder crops		Cows		NA
3	Grazing land		Heifer (<i>Gider</i>)		
4	Homestead		Calf (<i>Weyfen</i>)		
5	Fruit trees		Sheep		
6	Wood lot		Goat		
7	Rented out land		Donkey		
8	Other1		Horse		
9	Other2		Mule		
10	Total area (ha)		Other specify		

3. Livestock feed/forage related questions

3.1. How did the availability of feed vary over the last 12 months? (On a scale of 1-4 rate the feed availability, where 4 = excess, 3 = adequate, 2=shortage, 1= strong lack of feed)												
Month	J	F	M	A	M	J	J	A	S	O	N	D
Feed availability (score 1-4)												
3.2. What has happened to the cattle's body condition during this months (On scale of 1-3 rate the livestock body condition, where 3=good, 2=medium, 1=low,)												
Month	J	F	M	A	M	J	J	A	S	O	N	D
Livestock body condition score (1-3)												

3.3. How much did the various feeds contribute to the total diet of the animal during the last 6 months? Proportion of feed derived from different sources. <i>The different sources must add to 100%. What is the % of each feed sources consumed by different livestock types in the last 6 months?</i>									3.4. Is there any change you observed in livestock feed types and use since the last 3 years? (Yes/No). if Yes, is it (1)-increasing, (2)-decreasing (3)-no change	List of main reasons for change in livestock feed type and use: (1)- Increase in use of 'Brint' (2)-Increase in 'Tef' disease (3)-increase in population size (4)-Shortage of land (5)-Improved awareness (6)-Land degradation (7)-Increased improved forage (8)-Expansion of cultivated land (9)-Expansion of tree plantation (10)- Change in livestock type _____
Livestock feed type /sources	% of feed used during the past 6 months: must add to 100	% consumed by livestock type								
		Lactating cow	Non-lactating cow	Oxen	Young cattle	Sheep	Goat	Equines		
Crop residue										
Grass (cut and carry) from enclosure										
Hay from enclosure										
Grass (cut and carry) from outside enclosure										
Hay from outside enclosure										
Grazing										
Other _____										
Sum total	100%									

3.5. How much feed did you harvest/sell from the exclosures in the last 6 months? And what is the estimated income from sale of feed from exclosures in the last 6 months?

No.	Crops and other feed sources	Quantity of feed cut from the exclosure (100 kg bag/bundle)	Nearest market center economic value per unit in C3 (Birr)	Number of 100 kg bags/bundles sold	Did you give grass from the exclosure to someone in exchange for something in the past 6 months?, <i>if yes what is the value in (Birr)</i>	Income from sales of feed from the exclosure (Birr)
		C3	C4	C5	C6	(C4*C5)+C6
1	Grass from exclosure					
2	Hay from exclosure					
3	Other specify					

4. What is the amount of animal products produced and income from animal products in the past 6 months?

No.	Animal product	Quantity of animal products produced	Nearest market center economic value per unit in C2 (Birr)	Amount sold in unit indicated in C2	Income from sales of animal products (Birr)
	C2	C3	C4	C5	C4*C5
1	Milk (Litter)				
2	Cheese (kg)				
3	Butter (kg)				
4	Animal dung (kg)				

5. What is the estimated household income from renting out of traction power in the past 12 months?

No.	Soil types	What is your maximum potential plowing ability (<i>timad/day</i>), in a single day, using a pair of oxen during main rainy season	What is the nearest market center economic value of ploughing 1 timad (Birr) using a pair of oxen	What is the number of days OR timad you ploughed for money in the past 12 months	Did you give <i>oxen/traction power</i> to someone in exchange for something in the past 12 months?, if yes what is the estimated value in (Birr)	Income from sales of traction power in the past 12 months (Birr)
		C3	C4	C5	C6	(C4*C5)+C6
1	Red soil					
2	Black soil					
3	Other specify					

6. What is the estimated household income from sale of animals in the past 6 months?

No.	Livestock type	Number of livestock sold during the last 12 months	Nearest market center economic value per unit of livestock in C3 (Birr)	Income from sales of livestock in (Birr)
		C3	C4	C3*C4
1	Adult cattle			
2	Young cattle			
3	Sheep & Goats			
4	Horses			
5	Donkey			
6	Mule			