





Assigned household number [_____]

Intensifying Camel Productivity through Integrated Control of Surra within the

Somali ecosystem of the Horn of Africa

Questionnaire Identification

ID1. Date of interview (dd/mm/yy)	// 2018
ID2. Settlement/Village	 Gambella Kina/Kulamawe Laisamis LMD/Mlango Loglogo Ngaremara Turbi/Bubisa Oldonyiro
ID3. GPS readings	N
ID4. Sub-County	1. Isiolo 2. Garbatula 3. Merti 4. North Horr 5. Maikona 6. Laisamis
ID5. County	1. Isiolo 2. Marsabit
ID6. Name of interviewer	
ID7. Contact address for interviewer	Tel. No email address
ID8. Name of Respondent and Ethnic group	1. Name [] 2. Ethnic group []
ID9. Gender of Respondent	1. Male 2 Female []
ID10. Relationship of respondent to household head	1. Household head 2. Spouse 3. Son 4. Daughter 5. Other (Specify]
ID11. Filled questionnaire checked by?	









A. Personal profile of the camel producer

A.1 Name of household head _____

A.2 Gender of household head: 1. Male [_____] 2. Female [____]

A.3 Age of household head [_____] (years)

A.4 Years of formal education of household head [_____]

- A.5 Main occupation of the household head [_____]
 1= Livestock keeping 2= Formal employment 3=informal employment 4= Business 5= Student 6= (specify).....
- A.6 When did the household head start keeping camels? [_____] (Year)
- A.7 (a) What is the form of ownership of the land you mainly use for livestock rearing? [_____]

1= Privately owned 2= Rented 3= Communally owned 4= Other forms of ownership (specify).....

(b). If land is privately owned or rented, what is the number of hectares?

 Rented [_____] hectares
 Private [_____] hectares

B. Information on herd of camels kept and ownership

B.1 Please indicate the current number of camels in your herd and who they belong to?

Туре	Number	Owner (Indicate in order of importance based on proportion owned)				
B.1.1 Calves (less than a year)		[][][][](codes)
B.1.2 Young female (pre-breeding)		[][][][](codes)
B.1.2 Young male (pre-breeding)		[][][] [](codes)
B.1.3 Adult female (breeding age)		[][][] [](codes)
Lactating females		[][][][](codes)
B.1.4 Males (entire)		[][][] [](codes)
B.1.5 Males (castrated)		[][][] [](codes)
B.1.6 Total		[][][][](codes)

Codes

Owner	5=Female child
1=Household head	6= Relatives
2=Spouse	7= Neighbours
3=Jointly by household head and spouse	8=Business partners
4=Male child	9=Others (specify)









C Camel husbandry practices

C.1 What type of production systems do you practice? [_____]

1= Agro-pastoralism (settled with cropping activities and movement of livestock out of homestead for several days)

2= Mixed crop/livestock (permanently settled, animals move out and return to homestead every day)

3= Semi Nomadic (settled with movement of livestock only over several days)

4= Fully –nomadic (household moves with animals)

5= Others (specify.....

C.2 Who plays the following roles or makes the following decisions about camel production in your household?

Decision/Role	List 3 most important in order of importance 1= The Household head 2= The spouse in Household 3= Jointly in Household 4= Male children in Household 5= Female children in Household 6= Employed herder in household 7= Jointly with others (fora) 8= Other community members – specify			
Who mainly contributes the labour for grazing the camels?	[][]codes			
Who contributes labour to milking the lactating camels?	[][]codes			
During milking, who makes the decision on the number of quarters to milk?	[][]codes			
Who decides about sales or purchases of your camels?	[][]codes			
When your camel falls sick who decides;				
i) Whether to treat the camel?	[][]codes			
ii) The type of treatment to give (conventional or traditional)	[][]codes			
iii) Type of drugs to buy	[][]codes			
Who treats sick camels in your herd?	[][]codes			
Who decides where to graze the camels?	[][]codes			
Who decides when to migrate to new grazing areas?	[][]codes			
<u>List other important roles</u> , Specify:	[][]codes			
	[][]codes			
	[][]codes			

C.3 (i). Do you provide supplementary feeds to your camels apart from grazing? [_____]

	1. Yes[] 2. No[]
(i) If YE	S above, what are these supplementary feeds – <u>insert codes for all</u> [][]
	1= Pastures 2= Fodder 3= Mineral salts 4= Feeds 5= others, specify
(ii) Fror	m where do you get the supplementary feeds? (give name(s)
C.4.(i) (On average, on a good day, how much milk in litres do you milk from your herd?
	[litres/day]
(ii)	How many litres of milk does your best camel produce per milking session?
	[litres]
(iii)	More often than not, how many guarters of the camel's udder do you milk? []
(iv)	More often than not, how many times do you milk your camels in a day? []times/day
(v)	Do you sell milk you get from your camel herd? 1. Yes[] 2. No []
(vi)	(a) If <u>YES above</u> , how many litres of milk do you sell? [/litre(s)]
	(b) What is the price per litre? [Kshs/litre]
(vi)	Where do you sell your milk?
1.	Neighbours, 2. Brokers/middlemen 3. Market 4. Dairy 5. Others, specify
(vii)	If milk is sold, how far is the selling point from your household?
Name o	of place [];

Distance [_____km]









C.5. Apart from rearing camels, what other livestock species do you keep and which household member actually owns the animals?

Animal species	Number of animals kept	Who owns the animals?
B.4.a Cattle	[]	[](code)
B.4.b sheep & goats	[]	[](code)
B.4.c Donkeys	[]	[](code)
B.4.d Chicken	[]	[](code)
B.4.e Others (specify)	[]	[](code)

Codes

Owner	
1=Male household head	6=Female child
2=Female household head	7=Relatives
3=Male household head and his spouse	8= Neighbours
4=Female spouse	9=Business partners
5=Male child	10=Others (specify)

C.6. (i) Do you graze your camels separately from your other livestock 1. Yes[____] 2. No[____]

If YES, why do you separate your camels from other species of livestock? List reasons below:

-							
- (ii) If	No , which othe	er livestock do yc	ou graze alongsid	le your camels? [][]][]
	1=Goats	2=Sheep	3=Cattle	4=Donkeys			









C.7. (i) Do you split your camels into different herds? 1. Yes[_____] 2. No[____]

What is the basis of splitting the herd? (Age, Sex, Productivity etc)

(ii) If Yes in C.7 (i) above what camel classes are grouped together – (use codes below).

Group 1 – [][][]
Group 2 – [][][]
Group 3 – [][][]
Group 4 – [][][]
Group 5 – [][][]

Codes

- 1 = Calves (less than one year)
- 2 = Young female (pre-breeding)
- 3 = Young male (pre-breeding)
- 4 = Adult female (breeding age)
- 5= Lactating animals 6 = Males (entire)
- 7 = Males (castrated)
- 8= Other
- C.8. Where do you graze the following classes of camels?

Class of camel	Most utilized grazing areas		Reasons	
-	In wet season	In dry season		
1= Calves (less than one year)				
2= Young female (pre-breeding)				
3= Adult female (breeding age)				
4= Lactating animals				
5= Males (entire)				
6= Males (castrated)				









C.8.(i) Other than livestock keeping, do any of your household members have other sources of income?

1. Yes[____] 2. No[____]

(ii) If <u>YES</u> in (i), What are these other sources of income? (Indicate all that apply) [_____]

1=Farming	4=Business
2=Formal employment	5=Others (specify)
3=Informal employment	

(iii) Please rank important economic activities that generate income for the household

Activity	Rank
Camel keeping	[]
Other livestock species (specify)	[]
Farming i.e. crop production	[]
Formal Employment	[]
Informal employment	[]
Business	[]
Others (specify)	[]

D. Knowledge of camel trypanosomiasis and its management

D.1. What diseases affect camels in this area? (Respondents should be allowed to give local names)

D.2. (If trypanosomiasis is listed) how do you know that an animal is infected by trypanosomiasis? (Your observation to conclude that a camel is infected with trypanosomiasis)? [Tick, v if mentioned]

- 1. Loses body condition[____]
- 2. Develops a drooping hump [_____]
- 3. Unable to walk long distances [_____]
- 4. Sits down frequently
- 5. The camel develops swellings on the feet, underbelly and eyelids [_____]
- 6. The hair coat becomes rough [_____]
- 7. Produces a lot of saliva and tears
- 8. Shivers as if feeling cold [_____]

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9.	Does not feed well []	
10.). Diarrhoeas []	
11.	1. Produces less milk	
12.	2. Aborts if pregnant []	
13.	3. Others, specify	
14.	4	
15.	5	
16.	5	
17.	7	
18.	3	
D.3. what ca	causes trypanosomiasis in camels? []	
1= Tsetse fly	ly 2= Biting Fly 3= Ticks 4= Mosquitoes 5= others (Spe	ecify)
1= Rain	n your camel herd? [] iny season 2 = Dry season 3= immediately after rainy season I seasons 5 = Other (Specify)	
D.5 How do	lo you control the flies that cause camel trypanosomiasis? []
1= Acar	aricide application 2= Avoid infested areas 3= Do nothing	
4= Oth	her (Specify)	
D.6.(i) Whe	en did you last experience a case of camel trypanosomiasis in your camel	herd (give month and
yea	ear)	
[mo	nonth]	
(ii) Whi	hich class (es) of animal in the herd was affected in this last case mention	ed above (<u>use codes</u>)
[]	
Codes		
2 = Young 3 = Young 4 = Adult f 5 = Males	es (less than one year) g female (pre-breeding) g male (pre-breeding) t female (breeding age) es (entire) es (castrated)	









(iii). Did you treat the animal(s)?

1. Yes[____] 2. No[____]

(iv). IF YES, after how long did you take before you treated the camel after realising that it was

sick? Give number of days - [_____]

(v) What did you use to treat the animal?

1= Conventional drugs [____]

2= herbal concoction [____]

3= others []

If conventional drugs used,

(vi) Which drug did you use? give name or names if drugs were mixed

D.7 How did you prepare the drugs for administration and how did you administer it?

- Indicate Quantity of drug/s used
- Indicate volume of water used
 - Indicate the mode of delivery- intravenous injection, muscle injection or oral

D.8 What was the outcome after administering the treatment? [_____]

1= Camel recovered fully 2= Camel did not recover and died

3=Other	(specify)	
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D.9. More often than not, which classes of camels in your herd are most affected by trypanosomiasis. (List in

order of those mostly affected)	[][][](codes)
Codes for class	
 1 = Calves (less than one year) 2 = Young female (pre-breeding) 3 = Young male (pre-breeding) 4 = Adult female (breeding age) 5 = Males (entire) 6 = Males (castrated) 	









- D.10 During treatment of trypanosomiasis in camels, do you normally mix different types of drugs together?
 - 1. Yes[____] 2. No[____]
- D.11. If YES which drugs do you mix and why?

D.12 How many times do you treat the sick camel for it to recover? [_____]

1= Once only 2	2.= twice only	3= Three times only	y 4= Others (specify)
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- D.13 Do you think that available drugs are effective against trypanosomiasis in camels?
 - 1. Yes[____] 2. No[____]
- D.14 If **NOT**, what do you think is the reason(s)?

D.15 What do you **Mainly** do to prevent your animals from trypanosomiasis? [_____]

- 1. = Spraying animals with suitable acaricide (*Name the acaricide*).....)
- 2. = Avoiding vector infested areas
- 3. = Injecting them with preventive drugs
- 4. = Others, (Specify).....

D.16 Where do you **MAINLY** get your veterinary drugs from? (List in order of importance)

[____][___][___][___]

1. Agrovets (duka)

- 2. From open market, during market days
- 3. Hawkers on the streets
- 4. Drug companies
- 5. Government Veterinary Officer
- 6. Private vets.
- 7. Other (Specify).....

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D.17 (i) Is this where y	ou obtained the drug yo	ou used to treat your las	st case of trypanos	somiasis in yo
herd?[]				
1. Yes[] 2. No[]			
ii) Are drugs that	you use to treat trypand	osomiais always availab	le in the outlet wł	nenever you i
1. Yes[] 2. No[]			
iii) What do you d	do when you fail to get t	he drugs you are lookin:	g for in the outlet	?
D.18 More often than	not, who treats your sid	ck animals? [][]	
1= Governmer 3= Self 4. Her	nt Veterinary officers rders 5= Others (Sp	2= Animal Health Wo ecify)		
] 2. No[] the common problems e			
•	bove) Is ethno-medicine	used in treatment of ca	amel trypanosomi	asis in this
community?				
1. Yes[] 2. No[]			
D.22. If yes please give	e the ethno medical ma	terials/plants used in th	e treatment of try	/panosomias
Name of ethno medicinal drug/plant	Number of times drug used in last 12 months	Mains sources of the drug/substances	Do animals recover when	How do yo
			drug is used	-
			drug is used	_
			drug is used	-
			drug is used	the drug b administer









E. Details on camel Sales

- E.1 Have you sold any camels during the last ONE year?
 - 1. Yes[____] 2. No[____]
- E.2 If yes above, how many camels did you sell

E.3 If camels were sold please give the following information

Name of market	Distance to the market from home	Class of animal (code)	Number of animals sold (last 12 months)
		[]	
		[]	
		[]	
		[]	
		[]	

Codes for class

- 1 = Calves (less than one year)
- 2 = Young female (pre-breeding)
- 3 = Young male (pre-breeding)
- 4 = Adult female (breeding age)
- 5 = Males (entire)
- 6 = Males (castrated)
- E.4 What other management practices do you follow to improve the health and condition of camels before sale? (Indicate all that apply)

1= Deworming, 2= Breeding with improved breeds, 3= Feed supplementation,

4= Others (specify)









F. Camel inflows

F.1 Please tell us about the inflows of camels into your herd during the last 12 months:

Inflow type (code)	Month	Type of animal (code)	Number of animals	If purchased, where was it purchased (code)
[]		[]	[]	[]
[]		[]	[]	[]
[]		[]	[]	[]
[]		[]	[]	[]
[]		[]	[]	[]
[]		[]	[]	[]
[]		[]	[]	[]
Codes Type of inflow 1= Birth			of animal /lamb (<5 months)	

Type of inflow	Type of animal
1= Birth	1= Kid/lamb (<5 months)
2=Purchase	2= Young female (pre-breeding)
3=Gift in	3= Adult female (breeding age)
4= Exchange in	4= Males (entire)
5=Others (specify)	5= Males (castrated)
	6= Old female animals
Where Purchased	
1=Farm gate	
2=Village market	
3=Distant market	
4=Local business centre	
5=Local dip	
7=Auction	
8=Livestock trader	
9=Other (specify)	









G. Other assets owned by the household and household composition

G.1 Do you own the following assets?

Type of asset		Does the farmer own the asset? 1= Yes 2=No	Number owned
Rental buildings			
	Lorries		
	Pick-ups		
Vehicles	Tractors		
	Cars		
	Motor cycles		
Bicycles			
Animal pulled carts			
Radios			
TV			
Cell phone			
Other assets			
(specify)			

G.2. Please provide the following information about the members of your household

- i. Number of spouses______
- ii. Number of children_____
- iii. Number of siblings_____
- iv. Others _____

Thank you