

## C-21: Final Quantitative Evaluation Survey Instrument

### LAND O' LAKES/ZAMBIA FINAL EVALUATION HOUSEHOLD SURVEY AUGUST 2008

Identification	
<b>Questionnaire ID</b> <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div>	<b>Province:</b> ..... <input style="width: 40px; height: 20px;" type="text"/>
<b>District:</b> ..... <input style="width: 40px; height: 20px;" type="text"/>	<b>Milk Collection Center (MCC):</b> <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/>
<b>Farmer Group</b> ..... <i>(For beneficiaries only)</i>	
<b>Household Serial Number</b> <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div>	<b>Village/Locality:</b> <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div>
<b>Date of Interview:</b> Date:...../ Month:...../2008	
<b>Response Status</b> 1. Complete 2. Refusal 3. Non Contact 4. Incomplete (State Reason)..... <input style="width: 40px; height: 20px;" type="text"/>	

E-Code	Name of Enumerator	Signature	Date Interview Completed
S-Code	Name of Supervisor	Signature	Date Checked

#### ***Enumerator's Introduction Guide***

My name is (*Insert your names*) and I have been hired by Land O'Lakes/Zambia to participate in the final evaluation of the Title II Development Assistance Programme (DAP), which Land O'Lakes has implemented since 2004. Your household was randomly selected among many in (*insert name of village/community*). The purpose of this interview is to understand the impact of this program. The information will also be used to improve future similar programs either in Zambia or in other countries. The information will be used to prepare reports, but will not include any specific names.

The interview is expected to last around 45 minutes. If you have inquiries about this survey, contact the Land O'Lakes/Zambia office at telephone 01 263929 or the Chairperson of your local Land O'Lakes Farmer Group or Milk Collection Centre.

This survey is voluntary and you can choose not to take part. This will not affect your ability to receive Land O'Lakes assistance now or in the future. However, we would really appreciate it if you would answer the questions honestly and openly.

- **SEEK COMPREHENSION:** Do you have any questions about any of the things I have just said?
- **SEEK VOLUNTARY AGREEMENT:** Are you willing to participate in this interview?

**Enumerator:** *The household head and his or her spouse are the only permissible respondents in this survey. Ideally, the respondent should be the spouse but efforts should also be made to have the head of the household head except in female headed households. In exceptional circumstances, a responsible member of the household may be called to assist. Refer to the guidance in the questionnaire manual.*

## SECTION 1.0: DEMOGRAPHIC AND BACKGROUND CHARACTERISTICS

From Q1.1 to Q1.28, circle one of the codes that correspond to the answer the respondent has given or write the answer in the spaces provided for uncoded responses unless instructions have been given to circle more than one response.

No.	Questions and filters	Coding categories	Skip to
1.1	Name of Respondent		
1.2	Sex of the respondent.	Male 1 Female 2	
1.3	Age of Respondent at Last Birthday <i>Ask for NRC card if they Don't Know</i>	Age In Completed Years [ ][ ] Don't Know 888	
1.4	What is the highest level of school attended by the Respondent?	Primary 1 Secondary 2 College/university 3 None of the Above 4	
1.5	Respondent's relationship to the household head?	Spouse 1 Brother/Sister 2 Brother/Sister in Law 3 Child (Son/Daughter) 4 Nephew 5 Cousin 6 Grandchild 7 Self 8 Other, specify _____ 9	<b>If Self, Skip to 1.10</b>
1.6	Name of Household Head		
1.7	Sex of Household Head	Male 1 Female 2	
1.8	Age of Household Head at Last Birthday <i>Ask for NRC card if they Don't Know</i>	Age In Completed Years [ ][ ] Don't Know 888	
1.9	What is the highest level of school attended by Household Head?	Primary 1 Secondary 2 College/university 3 None of the Above 4	
1.10	Household Head's marital status. <b>READ the list and ask them to select which one best fits their situation.</b>	Single 1 Monogamously Married 2 Polygamously Married 3 Divorced 4 Widowed 5 Separated 6 Other (Specify) _____ 7 8	
1.11	How many people normally live in this household? <b>Ensure the Interviewee includes himself/herself.</b>	[ ][ ]	
1.12	How many are?	1.12.1 Children Under 12 Years) Male [ ][ ]	
		Female [ ][ ]	
		1.12.2 Adults (12 Years and Above) Male [ ][ ]	
		Female [ ][ ]	
1.13	How many members of this household have been chronically ill in the last 3 months or have been living a sickly life?	[ ][ ]	<b>If (0), Skip to 1.15</b>
1.14	How many of these chronically ill members are?	1.14.1 Children Under 12 Years) Male [ ][ ]	
		Female [ ][ ]	
		1.14.2 Adults (12 Years and Above) Male [ ][ ]	
		Female [ ][ ]	



No.	Questions and filters	Coding categories	Skip to
1.15	How many members of this household are orphans?	[ ][ ]	If (0) Skip to 1.17
1.16	How many of these orphans are children under 12 years old?	[ ][ ]	
1.17	How many members of this household are in school? <b>Enter Zero (0) if there are no members in a particular level of school</b>	Primary School [ ][ ] Secondary School [ ][ ] College/University [ ][ ]	
1.18	Has your household participated in Land O'Lakes (LOL) Development Assistance Program (DAP) activities?	Yes 1 No 0	If No, Skip to 1.20
1.19	How long has your household been participating in Land O'Lakes activities? <b>Ask for when they started participating and enter number of years and months after calculating.</b>	Years [ ] Months [ ][ ] Don't Know 888	
1.20	Has your household received a dairy cow directly from any organisation in the past four years?	Yes 1 No 0	If No, Skip to 1.23
1.21	How many dairy cows has your household received in the past four years?	[ ][ ]	
1.22	From which organization did your household receive a dairy cow? <b>Do not read out the responses provided but circle one or more if household received cows from many sources as appropriate; Probe as necessary</b>	Land O'Lakes 1 Heifer International 2 World Vision 3 GART 4 MACO 5 Other, specify _____ 6	
1.23	Has your household received passed-on dairy cattle from Land O'Lakes in the past 4 years?	Yes 1 No 0 Not Applicable 777	
1.24	Has your Household received Technical Assistance on Dairy improvement or Management in the past four years?	Yes 1 No 0	If No, Skip to 1.26
1.25	Which organization provided technical assistance on dairy management to your household in the past four years? <b>Do not read out the responses provided but circle one or more if household received Technical Assistance from many sources as appropriate; Probe as necessary.</b>	Land O'Lakes 1 Heifer International 2 World Vision 3 GART 4 MACO 5 Other, specify _____ 6	
1.26	Has any one in your household kept dairy records of milk production, costs, and income for at least one full year?	Yes 1 No 0 Not Applicable 777	
1.27	Has your household participated in the LOL supported Artificial Insemination (AI) program with cattle not received from LOL during the past four years?	Yes 1 No 0 Not Applicable 777	
1.28	Has your household sold milk and other dairy products through milk collection centres or bulking centres developed/ supported by LOL in the past four years?	Yes 1 No 0 Not Applicable 777	

**SECTION 2.0: NUMBER OF EATING OCCASIONS, STAPLE SOURCES, DIETARY DIVERSITY AND MONTHS OF INADEQUATE HOUSEHOLD FOOD PROVISIONING.**

<b>2.1. (Number of Daily Eating Occasions)-</b> During the past 12 months, did your household consume any staple food ( <i>e.g. Maize, Cassava, Sorghum, Millet, Sweet potatoes, Rice</i> ) during the following meals?												
Eating Occasion	Month recall (1=Yes, 0=No)											
	Jul 08	Jun 08	May 08	Apr 08	Mar 08	Feb 08	Jan 08	Dec 07	Nov 07	Oct 07	Sep 07	Aug 07
	2.1.1	2.1.2	2.1.3	2.1.4	2.1.5	2.1.6	2.2.7	2.2.8	2.2.9	2.2.10	2.2.11	2.2.12
a. A morning meal with <b>staple</b> foods												
b. A morning meal without staple foods												
c. A midday meal with <b>staple</b> foods												
d. A midday meal without staple foods												
e. An evening meal with <b>staple</b> foods												
f. An evening meal without staple foods												
<b>2.2 Adequacy of Meals: “Adequate when family was able to meet its staple food needs”</b>												
<b>Codes</b>												
1. Adequate												
2. Moderately Adequate												
3. Inadequate												
<b>2.3 (Month of Adequate Household Food Provisioning – MAHFP)</b> Now I would like to ask you about your household’s FOOD supply during different months of the year. When responding to these questions, please think back over the last 12 months. ( <i>FOOD supply refers to staple food that may have been produced, purchased, gifted etc...</i> )												
2.3.1. In the past 12 months, were there months in which you did not have enough FOOD to meet your family’s needs?								1= Yes 0= No	If NO, Skip to 2.4			
<b>ENUMERATOR: DO NOT READ THE LIST OF MONTHS BELOW.</b>												
<b>WORKING BACKWARD FROM THE CURRENT MONTH, PLACE A ONE IN THE BOX IF THE RESPONDENT IDENTIFIES THAT MONTH AS ONE INWHICH THE HOUSEHOLD DID NOT HAVE ENOUGHFOOD TO MEET THEIR NEEDS.</b>												
2.3.2. If yes, which were the months (in the past 12 months) in which you did not have enough FOOD to meet your family’s needs?												
Jul 08	Jun 08	May 08	Apr 08	Mar 08	Feb 08	Jan 08	Dec 07	Nov 07	Oct 07	Sep 07	Aug 07	

## 2.4 STAPLE FOODS

Now I would like to ask you about the staple foods consumed by this household. **Start with one staple food and complete the answers for all the following questions before proceeding to the next staple food mentioned.**

From the list below, what staples has this household consumed in the past 12 months?  <i>(Enumerator read out the foods listed below and enter the codes of staple food chosen by respondent)</i>		What was the main source of this staple food in the past 12 months?  <i>See codes below.</i>	Did this household grow this crop in the past 12 months? <b>1=Yes, 0=No</b> <i>If No, Skip to 2.4.5</i>	Did you sell any of this staple crop after harvest to raise money for any household expenses in the past 12 months? <b>1=Yes, 0=No</b> <i>777=Not Applicable</i>	During the past four years, does the main staple food from own production normally last up to the next harvest? <b>1=Yes, 0=No</b> <i>777=Not Applicable</i> <b>If Yes, go to 2.4.6</b>	How do you usually fulfill the staple food gap?  <i>Use codes below except for own production</i>
<b>2.4.1</b>		<b>2.4.2</b>	<b>2.4.3</b>	<b>2.4.4</b>	<b>2.4.5</b>	<b>2.4.6</b>
Name of staple food	Code					
a.		a.	a.	a.	a.	a.
b.		b.	b.	b.	b.	b.
c.		c.	c.	c.	c.	c.
d.		d.	d.	d.	d.	d.
e.		e.	e.	e.	e.	e.
<b>Staple Names and Codes for 2.4.1</b> 1=Maize 2= Cassava 3=Sorghum 4=Millet 5=Sweet potatoes 6=Rice 7=Wheat 8=Other, specify _____		<b>Codes for 2.4.2 and 2.4.6</b> 1=Own Production 2=Purchase with income 3=Food Aid 4= Gift  5=Battering commodities with food 6=Purchase with Loan/Credit 7= Selling Assets to buy Food  8=Purchase with remittances 9=Working for food 10 Other, specify _____  777=Not Applicable				

## 2.5 COPING STRATEGIES

<b>2.5.1</b>	Over the past four years, have you been affected by a shock or a sudden event?	<b>1= Yes</b>	<b>0= No</b> <i>go to 2.6</i>
<b>2.5.2</b>	If there is not enough food in your household, does your household.....?  <b>1=Yes</b> <b>0=No</b>	<b>2.5.3</b> <i>If yes to Q2.5.2, how often in past six months?</i> 1 = Four to six times 2 = Two to three times 3 = Once a month 4 = Twice a month 5 = Once a week	
a.	Limit portion sizes at meal time?		
b.	Reduce the number of meals eaten in a day?		
c.	Borrow food or purchase food on credit?		
d.	Rely on less preferred and less expensive food?		
e.	Rely on help from friends or relatives?		
f.	Harvest immature crops (e.g. green maize)		
g.	Rely on working for food or casual labour for food		
h.	Restrict consumption by adults in order for small children to eat?		
i.	Consume seed stock held for the next season?		
j.	Send children to eat with neighbors?		

k. Send household members to beg?		
l. Rely on gathering wild foods, and hunting?		
m. Skip entire days without eating?		
n. Rely on sales of wild or natural products? (e.g. Firewood, fish, e.t.c)		
o. Other, Specify _____		

**2.6. (Household Dietary Diversity Score - HDDS):** Now I would like to ask you about the types of foods that your household consumed yesterday? **NOTE: Firstly establish that these days were normal or usual days and not Special days i.e. holidays, public or family celebration – Refer to the manual for more instructions.**

2.6.1. FOOD CODE	FOOD TYPES	2.6.2. Did your household <u>consume</u> these food types Yesterday <b>1=Yes, 0=No</b>
	Did your household consume any of the following foods ( <b>TIME</b> ) during the day or at night? <b>READ THE LIST OF FOODS ROW AFTER ROW. PLACE AN APPROPRIATE RESPONSE IN THE BOX</b>	
<b>A</b>	Nshima or any other foods made from millet, sorghum or maize?	
<b>B</b>	Any rice, bread, other foods made from wheat?	
<b>C</b>	Any pumpkin, carrots, squash, or sweet potatoes that are yellow or orange inside?	
<b>D</b>	Any Irish potatoes, cassava or any other foods made from roots or tubers?	
<b>E</b>	Any dark, green, leafy vegetables such as cassava leaves, bean leaves, rape, spinach, sweet potato leaves, or Pumpkin leaves?	
<b>F</b>	Any other vegetables such as cabbage?	
<b>G</b>	Any fruits?	
<b>H</b>	Any beef, pork, lamb, goat, rabbit wild game, chicken, duck, or other birds??	
<b>I</b>	Any eggs?	
<b>J</b>	Any fresh or dried fish including Kapenta?	
<b>K</b>	Any beans, peas, bambara nuts, or lentils?	
<b>L</b>	Any sour milk yogurt, fresh milk or other milk products?	
<b>M</b>	Any oil, fat, or butter?	
<b>N</b>	Any sugar or honey?	
<b>O</b>	Any beverages such as coffee, tea?	

No.	Questions and filters	Coding categories		Skip to
<b>2.7</b>	From the food types in the previous table, are you currently consuming any foods that you could not have before you participated in the LOL DAP? ( <b>LOL beneficiaries only</b> )	Yes	1	<b>If No or N/A, Skip to Section 3.0.</b>
		No	0	
		Not Applicable	777	
<b>2.8</b>	What are the food types that you are currently consuming that you could not have before you participated in the LOL DAP? (Use the Food Codes from column 2.6.1)	<b>2.8.1</b>	<b>2.8.2</b>	<b>2.8.3</b>
		<input type="text"/>	<input type="text"/>	<input type="text"/>

**SECTION 3.0: LABOR ACTIVITIES**

**3.1** Now I would like to find out about labour usage for your agricultural activities *during the last 12 months*: (Ask one labour activity at a time. Note that if the respondent says YES in 3.1.2, continue with the rest of the questions, otherwise go to the next labour activity. If no labour used for all activities, go to 3.2

3.1.1 Labour Activity	3.1.2 Did the household use any labour for...(3.1.1)? <b>1=Yes</b> <b>0=No</b>	3.1.3 Household Labour/ Members		3.1.4. Hired Labour for Cash Payment 3.1.5						. Hired labour for in Kind Payment					
		Number of		Number of		3.1.4.1.3 Amount Paid (Zmk)	Number of		3.1.4.2.3 Amount Paid (Zmk)	3.1.5.1 Permanent Workers		3.1.5.1.3 Value of in kind payment (Zmk)	3.1.5.2 Casual Workers		3.1.5.2.3 Value of in kind payment (Zmk)
		3.1.3.1 Males	3.1.3.2 Females	3.1.4.1.1 Males	3.1.4.1.2 Females		3.1.4.2.1 Males	3.1.4.2.2 Females		3.1.5.1.1 Males	3.1.5.1.2 Females		3.1.5.2.1 Males	3.1.5.2.2 Females	
a=Crop Production															
b=Livestock Rearing															
c=Dairy Production															
d=Fish Farming															
e=Gardening															
f=Marketing of Agricultural Produce															
g=Selling Labour to other Farmers															
h=Other, specify															

**3.2** Now I would like to find out about labour for your dairy activities during the past 12 months: *(Note that question in the table below should only be asked to households with cattle. Ask one labour activity at a time. If the respondent says YES in 3.2.2, continue with the rest of the questions, otherwise go to the next labour activity. If no labour used for all dairy activities, go to Section 4)*

3.2.1 Labour Activity	3.2.2 Did the household use any labour for... (3.2.1)? 1=Yes 0=No	3.2.3 Household Labour/ Members		3.2.4. Hired Labour for Cash Payment 3.2.5						. Hired labour for in Kind Payment					
				3.2.4.1 Permanent Workers			3.2.4.2 Casual Workers			3.2.5.1 Permanent Workers			3.2.5.2 Casual Workers		
		Number of		Number of		3.2.4.1.3 Amount Paid (Zmk)	Number of		3.2.4.2.3 Amount Paid (Zmk)	Number of		3.2.5.1.3 Value of in kind payment (Zmk)	Number of		3.2.5.2.3 Value of in kind payment (Zmk)
3.2.3.1 Males	3.2.3.2 Females	3.2.4.1.1 Males	3.2.4.1.2 Females	3.2.4.2.1 Males	3.2.4.2.2 Females		3.2.5.1.1 Males	3.2.5.1.2 Females		3.2.5.2.1 Males	3.2.5.2.2 Females				
a=Construction of Parlour/kraal															
b=Milking															
c=Forage production															
d=Feed Preparation															
e=Feed Conservation															
f=Calf rearing															
g=Disease prevention and Medical provision															
h=Transportation / marketing															
i. Other, specify _____															

## SECTION 4.0 AGRICULTURAL PRODUCTION AND HOUSEHOLD INCOME

### Section 4.1: Agricultural Production (Crops, Pastures and Gardening)

No.	Questions and filters	Coding categories	Skip to
4.1.1	How much total land (in Hectares) did your household own and/or rent in the past 12 months?  <b>Let respondent answer using units they are most familiar with then convert to Ha using conversion tables provided.</b>	Total land owned [_____] ha Borrowed/rented land [_____] ha Don't Know 888	
4.1.2	How much land did you cultivate in the last 12 months?  <b>Let respondent answer using unit they are most familiar with then convert to Ha using conversion tables provided.</b>	Total land cultivated last season [_____] ha Don't Know 888	<b>If all land was cultivated, Skip to Q4.1.4</b>
4.1.3	What are the reasons for not cultivating all your land in the past 12 months?  <b>Do not read the list. Circle all that is mentioned by the respondent</b>	Lack of seed 1 Lack of fertilizer 2 Inadequate labour 3 Poor rainfall 4 Sickness 5 Lack of animal draught power 6 Some fields are no longer productive 7 Furrowing to rejuvenate the land 8 Land left for grazing 9 Virgin land 10 Other _____ 11	
4.1.4	Compared to before you joined the LOL DAP, has your household been able to produce more food in recent production seasons?  <b>(LOL beneficiaries only)</b>	Yes 1 No 0 Not Applicable 777	<b>If No or N/A, Skip to Q4.1.6</b>
4.1.5	If the answer to Q4.1.4 is Yes, what is the main reason why your household has been able to produce more food in recent seasons than before you joined LOL DAP?	1.....	
4.1.6	Has your household been involved in dry season vegetable gardening in the past 12 months?	Yes 1 No 0	<b>If No, to both Q4.1.6 and Q4.1.7, Skip to Q4.1.9</b>
4.1.7	Has your household been involved in rain (wet) season vegetable gardening in the past 12 months?	Yes 1 No 0	
4.1.8	If yes to question Q4.1.6 or Q4.1.7, what has been the main method of soil improvement in your vegetable garden?  <b>Compost manure is aerobically decomposed remnants of organic matter 'Green Manure'.</b>	None 0 Fertilizer Application 1 Cattle Manure Application 2 Chicken Manure Application 3 Using Compost Manure 4 Other Specify _____ 6	
4.1.9	Has your household been involved in the production of forage and pasture in the past 12 months?  <b>(Only For Households with Cattle)</b>	Yes 1 No 0 Not Applicable 777	<b>If No or N/A, Skip to Section 4.2</b>
4.1.10	What fodder/pasture crops did your household grow in the past 12 months?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Rhodes Grass 1 Sun Hemp 2 Velvet Beans 3 Cow Kandy 4 Pigeon Peas 5 Other Specify _____ 6	

No.	Questions and filters	Coding categories	Skip to
4.1.11	How did your household acquire the forage and/or pasture seeds planted in the past 12 months?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Cash Purchase 1 Credit (Cash or Actual Seed) 2 Grant from an Organisation 3 Own Seed from previous crop 4 Given by research branch or extension staff 5 Given by Relative or Neighbour 6 Other, specify 7	<b>If 2 and/or 3, go to 4.1.12. Otherwise Skip to 4.1.13</b>
4.1.12	If the forage/pasture seed was received on credit or through a grant from an organization, which organisation provided the seed?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Land O'Lakes 1 Heifer International 2 World Vision 3 GART 4 MACO 5 Other, specify_____ 6	
4.1.13	Has your household also used some of these pasture/folder crops for soil improvement?	Yes 1 No 0	<b>If No, Skip to Section 4.2</b>
4.1.14	Which forage/pasture crops has your household used for soil improvement in the past 12 months?	Rhodes Grass 1 Sun Hemp 2 Velvet Beans 3 Cow Kandy 4 Pigeon Peas 5 Other, specify_____ 6	

## SECTION 4.2 LIVESTOCK PRODUCTION

Now I would like to talk to you about livestock production activities in your household.

Questions and filters	Coding categories	Skip to																
4.2.1 Does any member of your household own or raise any kind of livestock/poultry?	Yes 1 No 0	<b>If No, Skip to Section 4.5</b>																
4.2.2 What type of livestock/poultry is owned or raised by any member of this household?  <b>Do not read the list. Circle all that is mentioned by the respondent) Probe as necessary. Other Birds include Guinea fowls, Ducks, Pigeons e.t.c.</b>	Traditional Cattle 1 Beef Cattle 2 Dairy Cattle 3 Goats 4 Sheep 5 Pigs 6 Rabbits 7 Chickens 8 Other Birds 9 Bee Keeping 10 Other, specify_____ 11	<b>If Cattle is raised, Skip to Q.4.2.4</b>																
4.2.3 If the household does not raise any cattle, what is the main reason for not owning or raising cattle?  <b>Do not read the list. Circle only one main option.</b>	No access to cattle 1 Too expensive to maintain 2 Herd wiped out by disease 3 Not interested 4 Not a common cultural practice 5 Don't know how to raise cattle 6 Taken by the owners 7 Other, specify_____ 8																	
4.2.4 How many different cattle does the household own/raise?	<table border="1"> <thead> <tr> <th>Breed</th> <th>Cows /Heifers</th> <th>Bulls/oxen</th> <th>Calves</th> </tr> </thead> <tbody> <tr> <td>Pure</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Crosses</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Traditional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Breed	Cows /Heifers	Bulls/oxen	Calves	Pure				Crosses				Traditional				
Breed	Cows /Heifers	Bulls/oxen	Calves															
Pure																		
Crosses																		
Traditional																		
4.2.5 What is your current cattle management system?	Free range 1 Zero Grazing 2 A combination of both the above 3 Not Applicable 777																	



4.2.6	Is this different from LOL distributed animals? <i>(LOL beneficiaries only)</i>	Yes No Not Applicable	1 0 777	If NO or N/A Skip to 4.2.8
4.2.7	What is the current cattle management system for cattle or pass-on animals received from LOL DAP?	Free range Zero Grazing A combination of both the above Not Applicable	1 2 3 777	
4.2.8	Has your household used Artificial Insemination on cattle received from the LOL DAP?	Yes No Not Applicable	1 0 777	If NO or N/A skip to 4.2.11
4.2.9	If your household used Artificial Insemination on cattle received from the LOL DAP, what was the result?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Still awaiting Pregnancy Diagnosis (PD) The Cow is in-calf More improved calf was born Most of the calves born are bulls The cow conceived after many AIs The cow (s) did not conceive Other, specify	1 2 3 4 5 6 8	
4.2.10	If your household used Artificial Insemination on cattle received from the LOL DAP, what is the number of surviving calves born from these A.I.s?	Bull Calves <input type="text"/> <input type="text"/>	Heifer Calves <input type="text"/> <input type="text"/>	
4.2.11	Has your household used Artificial Insemination on cattle not received from the LOL DAP?	Yes No Not Applicable	1 0 777	If NO, or N/A, skip to 4.2.14
4.2.12	If your household used Artificial Insemination on cattle <b>not received</b> from the LOL DAP, What was the result?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	More improved calf was born Most of the calves born are bulls The cow (s) did not conceive The cow conceived after many AIs The cows was sick Other, specify _____	1 2 3 4 5 6	
4.2.13	If your household used Artificial Insemination on cattle not received from the LOL DAP, what is the number of calves born from these AIs in the past four years?	Bull Calves <input type="text"/> <input type="text"/>	Heifer Calves <input type="text"/> <input type="text"/>	
4.2.14	How far is the closest source of drinking water for cattle during the rain season?	Less than 500m About 1 Km More than 1 Km Not Applicable	1 2 3 777	
4.2.15	How far is the closest source of drinking water for cattle during the dry season?	Less than 500m About 1 Km More than 1 Km Not Applicable	1 2 3 777	

Now I would like to talk to you in detail about the different types of livestock raised by your household as indicated in **Q4.2.2** above. Please tell me more about the different types of livestock that are owned or raised by members of this household.

4.2.16.1 Type of livestock raised or owned. ( <i>Use the response from Q4.2.2 above as the list of livestock owned/raised. Ask about one type of animal at a time.</i> )	4.2.16.2 Number of livestock raised.	4.2.16.3 Of the number being raised, how many <i>belong</i> to the following members of the household?			4.2.16.4 How many have died in the past 12 months?	4.2.16.5 How many have been sold in the past 12 months? <i>If '0', Skip 4.2.16.1</i>	4.2.16.6 What were the main reasons for selling the livestock? ( <b>Provide at most three problems in order of priority, see codes below</b> )		
		4.2.16.3.1 Male	4.2.16.3.2 Female	4.2.16.3.3 Jointly owned					
a.									
b.									
c.									
d.									
e.									
f.									
g.									
h.									
<b>Codes for Q4.2.16.6</b>					4=To meet household food shortage				
1=To meet school fees					5=For medical bills				
2=For Social event (e.g. wedding, funeral)					6=Buy other livestock				
3=For loan repayment;					7=Build better houses				
					8=Other (Specify) _____				
4.2.17	Who makes the decisions on small livestock (goats, sheep, chickens, etc)?			Head of Household		1			
				Spouse		2			
				Both		3			
				Other, specify _____		4			
				Not Applicable		777			
4.2.18	How is this different from before you joined LOL DAP? ( <i>LOL beneficiaries only</i> )			Head of household is more involved		1			
				Spouse is more involved		2			
				Both are more involved		3			
				No difference		4			
				Not Applicable		777			
4.2.19	Who makes the decisions on large stock (cows, bulls, etc)?			Head of Household		1			
				Spouse		2			
				Both		3			
				Other, specify _____		4			
				Not Applicable		777			
4.2.20	How is this different from before you joined LOL DAP? ( <i>LOL beneficiaries only</i> )			Head of household is more involved		1			
				Spouse is more involved		2			
				Both are more involved		3			
				No difference		4			
				Not Applicable		777			

### SECTION 4.3: DAIRY PRODUCTION

	Questions and filters	Coding categories	Skip to No.
4.3.1	Of the cattle on this farm, how many are dairy cattle?	Number of Cattle [ ]	If zero (0), Skip to Section 4.4

**4.3.3.** Now I would like you to tell me more about the dairy cattle you own/raise and this household’s dairy production activities. *Ask questions about one breed of dairy cows at a time.*

4.3.3.1 Dairy animal Type	4.3.3.2 Number of dairy cows/heifers currently being raised	4.3.3.3 Number of lactating cows in the dry seasons of the past 12 months. <i>If '0', Skip to 4.3.3.6</i>	4.3.3.4 Amount of Milk produced during the <u>dry season</u> 1=Same as all year round 2=Lower than usual 3=Higher than usual	4.3.3.5 Average litres per cow per day during the dry season	4.3.3.6 Number of lactating cows in the rain season of the past 12 months. <i>If '0', Skip to 4.3.3.9</i>	4.3.3.7 Amount of milk produced during in the <u>rain season</u> 1=Same as all year round 2=Lower than usual 3=Higher than usual	4.3.3.8 Average litres per cow per day during rain season	4.3.3.9 Biggest problem faced in raising these animals ( <i>see codes below and place in order of priority</i> )
a. Traditional cattle								
b. Cross dairy cattle								
c. Cross beef cattle								
d. Pure dairy cattle								
e. Pure beef cattle								
<b>Codes for Q4.3.3.9</b> 0=None 1=Animal Diseases 2=Poor nutrition and Pasture Management 3=Limited Grazing Land 4=Water shortages 5=Poor Milk production techniques			6=Lack of market for milk 7=Low milk price 8= Poor infrastructure (Roads, water supply, electricity) 9=Lack of supporting services (Veterinarian, A.I) 10=Lack of finance (Operating Capital) 11= High input costs (feed, medicines, equipment, other) 12=High labour costs		13=Lack or shortage of land for feed/folder production 14= Lack of information on markets 99=Other (specify)_____			

**4.3.4. FOR LOL BENEFICIARIES ONLY:** Now I would like you to tell me more about the animals your household received from Land O’Lakes in the past four years?

4.3.4.1 Heifer name/ Tag number		4.3.4.2 Date received		4.3.4.3 Recipient in household 1=Male 2=Female	4.3.4.4 Animal received from? 1=LOL 2=Pass-on farmer	4.3.4.5. Pregnancy status at receipt 1=in-calf 2=not pregnant 3=Already with calf	4.3.4.6 Is the cow alive now?  1=Yes 0=No <i>If No, skip to Q4.3.3.8</i>	4.3.4.7. Are you currently milking this cow? 1=Yes 0=No <i>If No, Why not?</i>	4.3.4.8 Number of surviving calves born from this cow.	4.3.4.9 Number of calves born from this cow that have been passed on.
4.3.4.1.1 NAME	4.3.4.1.2 Cow Id	4.3.3.2.1 Month	4.3.3.2.3 Year							

*For month code, use 1=January, 2=February, etc...12=December*

<b>4.3.5</b> What have been the 3 main production costs you have incurred in dairy production <i>in the past 12 months?</i> <i>Ask for these production costs in order of priority starting with the most expensive.</i>		
<b>4.3.5.1</b> Type of Production Cost ( <i>Use Codes Below</i> )	<b>4.3.5.2</b> How much money did you spend on this production cost? ( <b>Zmk</b> )	<b>4.3.5.3</b> In comparison to the previous year, were these expenses: 1= Higher than expected 2= As expected 3=Lower than expected
a.		
b.		
c.		
1= Purchase of Concentrate Feed/Molasses 2=Medicines and Veterinary Drugs 3=Labour for Spraying/Dipping 4= Folder/pasture production	5= Feed Conservation 6=Construction of parlour/kraal 7= Milking 8=Breeding Costs (includes AI)	9=Procurement of dairy equipment 10=Transportation of Milk 11=Co-operative Fees 12=Other, Specify_____

## SECTION 4.4: MILK SALES

**4.4.** Now I would like to talk to you about milk sales in your household.

No.	Questions and filters	Coding categories	Skip to
<b>4.4.1</b>	Did your household sell any milk from own production in the past 12 months?	Yes 1 No 0	<b>If No, Skip to Q4.4.3</b>
<b>4.4.2</b>	Where did your household sell its milk in the past 12 months?  <i>Do not read the list. Circle all that is mentioned by the respondent.</i>	Milk Collection Centre (MCC) 1 Within the community/Neighbours 2 Market within the community 3 Market outside the community 4 Traders 5 Other, specify_____ 6	

**4.4.3** How much milk has your household produced and sold during the past 12 months? *Ask questions 4.4.3.2 to 4.4.3.5 one month at a time. Note that if the respondent says there were no cows milked in that month (0 for 4.4.3.2), go to the next month. If no animals were milked for all months, go to Section 4.5.*

4.4.3.1. <i>Start with July, 2008</i>	4.4.3.2 Number of cows milked	4.4.3.3 Total Litres produced	4.4.3.4. Sales to the MCC		4.4.3.5 Sales within the community	
			4.4.3.4.1 Amount of Milk (Litres)	4.4.3.4.2 Price per litre (Zmk)	4.4.3.5.1 Amount of Milk (Litres)	4.4.3.5.2 Value (Zmk)
a) July 2008						
b) June 2008						
c) May 2008						
d) April 2008						
e) March 2008						
f) February 2008						
g) January 2008						
h) December 2007						
i) November 2007						
j) October 2007						
k) September 2007						
l) August 2007						

4.4.4	Who decided how much milk to sell?	Head of Household Spouse Both Other, specify _____	1 2 3 4	
4.4.5	How is this different from before you joined LOL DAP? <i>(LOL beneficiaries only)</i>	Head of household is more involved Spouse is more involved Both are more involved No difference Not Applicable	1 2 3 4 777	

## SECTION 4.5: MILK CONSUMPTION

4.5 Now I would like to talk to you about milk consumption in your household. *For questions in this section, circle the code that corresponds to the respondent's answer.*

No.	Questions and filters	Coding categories	Skip to
4.5.1	How often have adult members of this household consumed milk during the past week?	Never Every day Every two days Twice a week Once a week	0 1 2 3 4
4.5.2	How often have children of this household consumed milk during the past week?	Never Every day Every two days Twice a week Once a week	0 1 2 3 4
4.5.3	What is the main source of this milk?	Own Production Cash Purchases Barter Gift (Given by Relatives/Neighbours) Other, specify	1 2 3 4 5

4.5.4.1	4.5.4.2	4.5.4.3
Apart from the milk sold, how did the Household utilize the rest of the milk during the past week? <b>Ask "For...."</b>	<b>1=Yes</b> <b>0=No</b> (go to next item; if no all, go to 4.6)	If yes, what is the average litres utilized per day?
a) Household consumption		
b) Calf Consumption		
c) Gave to Relatives/Neighbours		
d) Other, specify		

## SECTION 4.6: HOUSEHOLD INCOME STATUS

Now I would like to talk to you about sources of income for you household and how this income is utilized.

No.	Questions and filters	Coding categories	Skip to
4.6.1	What have been the sources of income for this household in the past 12 months?  <i>Do not read the list. Circle all that is mentioned by the respondent</i>	Sale of Livestock/livestock products Sale of milk/other dairy products Sale of rainfed crops Gardening/Irrigated Agriculture Formal employment Remittances/Gifts Trading Piecework Charcoal Burning Beer Brewing Fishing Black smith None Other, specify	1 2 3 4 5 6 7 8 9 10 11 12 13 14

No.	Questions and filters	Coding categories	Skip to
4.6.2	What has been the most important source of income for this household in the past 12 months?  <b>Use codes provided in Q4.6.1 above.</b>	Most Important Source of Income [ ]	
4.6.3	How many household members have been engaged in any of the household's income generating activities in Q4.6.1 above in the past 12 months?	Number of Household Members [ ][ ]	

**4.6.4.** Now I would like to talk to you in detail about other income generating activities other than dairy mentioned in Q4.6.1. **Skip to Q4.6.5 if only source of income for the household in Q4.6.1 is dairy. Remember that the reference period is the last 12 months. Use the codes for Income generating activities specified in Q 4.6.1 lease the box blank for other sources of income not represented by available codes.**

4.6.4.1 Income generating activity		4.6.4.2 Number of household members involved			4.6.4.3 Number of months this activity has been conducted	4.6.4.4. Total Amount Earned from this Activity
4.6.4.1.1 Name	4.6.4.1.2 Code	4.6.4.2.1 Males	4.6.4.2.2 Females	4.6.4.2.3 Total		
	a.					
	b.					
	c.					
	d.					
	e.					
	f.					
	g.					

Now I would like to talk to you about how your household has utilized its income in the past 12 months.

No.	Questions and filters	Coding categories	Skip to
4.6.5	What are the three (3) most important uses of income earned from sources marked in Q4.6.1 above?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Purchase of Staple Food 1 Purchase of Non-Staple Food 2 Purchase of Household Goods (e.g. Radios, T.V.s, e.t.c) 3 Education/School Fees 4 Payment of Dowry (Marriage) 5 Savings/Banking 6 Purchase of Clothing 7 Travel 8 Purchase of Agricultural Inputs 9 Purchase of Veterinary Services/Drugs 10 Labour for livestock Rearing 11 Labour for Crop Production 12 Purchase Farm Implements 13 Groceries (e.g. Soap, tooth paste, sugar, cooking oil) 14 None 15 Other Specify _____ 16	

4.6.6	What are the three (3) most important uses of your dairy income? <i>Use codes in question Q4.6.5 above (Only for Households with Dairy Sales)</i>	First Most Important	[ ]	
		Second Most Important	[ ]	
		Third Most Important	[ ]	
4.6.7	Who decides how to use the proceeds from milk sales?	Head of Household	1	
		Spouse	2	
4.6.8	How is this different from before you joined LOL DAP? <i>(LOL beneficiaries only)</i>	Both	3	
		Other, specify _____	4	
		Head of household is more involved	1	
		Spouse is more involved	2	
		Both are more involved	3	
	No difference	4		
	Not Applicable	777		

### SECTION 5: COOPERATIVE DEVELOPMENT SERVICES

In this section, I would like to find out about your household's participation in cooperative activities.

No.	Questions and filters	Coding categories	Skip to
5.1	Is anyone in your household a member of a Farmer Association or Co-operative?	Yes 1 No 0	If NO, , Skip to 5.7
5.2	What type of co-operative/association is this?  <i>Do not read the list. Circle all that is mentioned by the respondent. Probe for more specific answers</i>	Multi-purpose Co-operative/Association 1 Agricultural Co-operative/Association 2 Dairy Co-operative/Association 3 Farmer group 4 Other Specify _____ 6	
5.3	Is your cooperative/farmer association supported by Land OLakes DAP?	Yes 1 No 0	
5.4	How often do you participate in your co-operative's/association's activities/meetings?	Every Week 1 Twice a Month 2 Once a Month 3 Once in a while 4 Other Specify 5	
5.5	Give the main reason why any member of your household joined the co-operative/association?  <i>Do not read the list. Circle all that is mentioned by the respondent.</i>	Access to Agricultural Inputs 1 Access to Subsidized inputs 2 Access to loans 3 Access to the Milk Collection Centre (MCC) 4 Access to markets for agricultural products 5 Access to trainings 6 Learning from fellow farmers 7 Access to A.I. Services 8 Access to disease vaccines and drugs 9 Organizing, mobilizing and leadership skills 10 Other Specify _____ 11	
5.6	What is the main benefit your household has experienced from its membership to the co-operative/association?  <i>Enter the benefit code using the codes in 5.6 above in the space provided</i>	[ ] Other, Specify _____	
5.7	Is your household a member of the LOL supported Milk Collection Centre or Bulking Centre in your area?  <i>A bulking centre is place where farmers deliver milk to before it can be taken to an MCC, it can be a building or roadside collection point.</i>	Yes 1 No 0 There is no MCC or Milk Bulking Centre 777	

5.8	What benefits has your household experienced from selling milk through the MCC or Bulking Centre?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Our milk always passes the freshness tests	1
		Access to animal feed	2
		Access to animal vaccines and drugs	3
		Access to AI Services	4
		Access to Technical Assistance	5
		Able to save money raised from milk sales	6
		Learning from fellow farmers	7
	Access to loans	8	
	Easier to sell milk than selling at the market	8	
	Other, specify _____	9	
	Not Applicable	777	

## SECTION 6.0: TECHNICAL ASSISTANCE

**6.1.** Now I would like to ask you about the technical assistance that you or any other member of your household has received from Land O'Lakes or other organizations during the last 12 months. (*Ask about one type of Technical Assistance at a time*)

Service or Technical Assistance provided by LOL	6.1.1. During the last 12 months, did anyone in your household receive technical assistance from LOL on . . . ? 1=Yes 0=No	6.1.2. Has anyone in your household used/ applied this technical assistance? 1=Yes 0=No	6.1.3. Do you and your family members think the technical assistance is useful? 1=Yes 0=No	6.1.4. Other main source of this technical assistance 1=MACO extension officers 2=NGO (specify) 3=Private (e.g. vets) 4= World Wide Sires (WWS) 5=GART 6=Heifer International 9=Other (specify)
Ask: Did you receive ....				
a) Record Keeping				
b) Animal Nutrition				
c) Animal Health				
e) Calf Rearing				
f) Milk Handling and Hygiene				
g) Dairying as a business				
h) Folder/pasture establishment				
i) Feed Conservation				
j) Supplementary Feeding				
k) Artificial Insemination				
6.2	Which Technical Assistance have been the most useful and practical in improving your income? <b>Rank three most useful TA. Use codes in 6.1, first column.</b>		1. [ ] 2. [ ] 3. [ ]	
6.3	How have the Technical Assistance been useful in improving your income?  <b>Do not read the list. Circle all that is mentioned by the respondent.</b>	Increased Milk Yield 1 Now able to raise a dairy cow 2 Reduced costs of production because of ability to do many tasks 3 Reduced feed costs due to feed conservation 4 Now able to make/mix own concentrate feed 5 Now takes farming as a business 6 Now able to conserve feed 7 Improved breed of calves 8 Improved crop yields due to use of cow dung 9 Increased crop yields due to pasture production 10 More income resulting from increased Milk Sales 11 Improved animal health due to good feeding 12 Improved animal health due to disease prevention 13 Longer lactation periods for cows 14 Improved quality of milk 15 Reduced cow and calf mortality 16  Other, Specify		

**SECTION 7.0: (FOR LOL DIRECT BENEFICIARIES ONLY)**

No.	Questions and filters	Coding categories	Skip to
7.1	<p>Mention three (3) ways in which the LOL DAP has affected the living standards of your household? The response can be either positive or negative.</p> <p><b>Do not read the list. Circle three that are mentioned by the respondent.</b></p>	<p>Our household has regular income now 1            Our household income has increased 2            Able to buy groceries 3            Now able to buy non-staple foods we were not able to 4            Children are able to go to school 5            Able to buy clothes 6            Built/building a better house 7            We are able to have food in hunger periods 8            Childrens' health has improved due to milk consumption 9            Able to meet health expenses 10            Able to buy household goods (Non productive assets) 11            Able to buy farming implements 12            Able to buy farming inputs 13            Able to produce more vegetables 14            We have more improved dairy animals 15            We have a dairy cow/cows 16            Our household consumes more milk now 17            Used milk income to buy other livestock 18            Paying for AI whether it is successful or not 19            Spend most our time looking for feed for animals 20            Lost a lot of money because our cow has never given us milk 21            Other, specify 22</p>	
7.2	<p>Apart from the direct beneficiaries of the LOL DAP, in what ways do you think community households have benefited from the LOL DAP?</p> <p><b>Do not read the list. Circle three that are mentioned by the respondent. CLW stands for Community Livestock Worker</b></p>	<p>Milk is given by beneficiary households 1            Lower prices of milk due to increased supply 2            Availability of piecework in dairy activities 3            Milk is given to Households with sick people 4            Access to trained AI technicians 5            Access to trained <b>CLWs</b> for consultation 6            Availability of supplementary feed 7            Access to disease vaccines and drugs 8            Access to a hammer mill given by the program 9            Market for maize bran has been developed 10            Learning from direct beneficiaries 11            Other Specify 12</p>	
7.3	<p>Are there certain things that you feel should have been done differently?</p>	<p>Yes 1            No 0</p>	<p><b>If NO, end interview.</b></p>
7.4	<p>If yes to Q7.3 above, give at most three ways in which the implementation of the LOL DAP could have been changed to realize the maximum possible impact on your community?</p> <p><b>Enumerator: (Do not read the list. Circle all that is mentioned by the respondent.)</b></p>	<p>MCC must be near farmers 1            AI system needs improvement 2            AI materials to be given to each group 3            Carrying out pregnancy diagnosis after AI 4            Veterinary staff should be near 5            Giving more improved/pure dairy cattle 6            Giving better milk producing breeds 7            Giving more cows (at least two) 8            Giving harmer mills to farmers 9            Giving more pasture seeds on credit 10            Giving farmers bicycles on loan 11            Giving households new animals if initial ones can't get pregnant 12            Allowing us to pass on even bull calves 13            Passing on the second calf 14            Allowing us to pass on the old cows received 15            Giving farmers clear information on pass-ons 16            Allowing us to use bulls in place of AI 17            Giving farmers loans to construct good kraals/parlours 18            Land O'Lakes should focus on direct beneficiaries, not MCCs 19            Other, specify 20</p>	

**END OF INTERVIEW  
 THANK THE RESPONDENT FOR THEIR PARTICIPATION.**