Index Based Livestock Insurance (IBLI) Marsabit Household Survey Codebook: Rounds 1-7

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1st edition: September 24th, 2014

2nd edition: August 23rd, 2017

3rd edition: April 30th, 2023

Forward

In 2020, five years after Round 6 of the Index Based Livestock Insurance (IBLI) Marsabit Household Survey was collected, ILRI collected a seventh round of the Marsabit Household Survey. When doing so, the survey structure was maintained as much as possible while meeting the objectives of the additional round of data and constraints caused by the SARS-CoV-2 pandemic. While this is being presented as a 3rd edition of this codebook, the objectives and therefore content of this codebook are somewhat different from the first two editions. We have reduced considerably the content on motivation, the randomized treatments, the IBLI product, and events surrounding it because they were not easily updated for the periods between 2015 and 2020. For example, there have been several changes to the IBLI index and IBLI policies in that time, as well as variation in who sold IBLI and where, and even the index units themselves have seen changes. Accurately documenting all these changes regarding IBLI, as well as other programming in the region, falls far outside the scope of this codebook. Rather, we ask the reader and data users to look to other sources for updates on the IBLI product; when possible, we provide links to potentially useful references. Importantly, for anyone interested in using the randomized treatments, we suggest reading the 2nd edition of this codebook carefully, which can be found at this link https://data.ilri.org/portal/dataset/ibli-marsabit-r1. In addition, we note that in harmonizing Round 7 with the existing Rounds 1-6, there were some changes made to Rounds 1-6. The result is that code written to run on the 1-6 panel should be checked carefully before applying to rounds 1-7.

For questions regarding the research design and survey rounds 1-6, please contact Munenobu Ikegami at munenobuikegami@hosei.ac.jp

For questions regarding survey round 7, please contact Nathan Jensen at nathaniel.d.jensen@gmail.com.

Suggested citation for this codebook.
Vincent Alulu, Nathaniel Jensen and Ikegami, Munenobu,. 2023. Index Based Livestock Insurance (IBLI) Marsabit Household Survey Codebook: Rounds 1-7. ILRI.

Suggested citation for the data.
International Livestock Research Institute. 2023. Index Based Livestock Insurance (IBLI) Marsabit Household Survey Data: Rounds 1-7. ILRI.

1 Contents

2 Research Objectives and Design: An Overview

2.1   Introduction

Index based insurance products provide an opportunity to offer formal insurance coverage for risks and to populations that have been cost-prohibitive to insure using conventional insurance products. Ideally, index insurance should be based on the realization of an outcome that cannot be influenced by insurers or policy holders (such as the amount and distribution of rainfall over a season) and should be easily observable and verifiable by stakeholders. Because the risk profile insured by index products is based in the index itself, not individual losses, the insurance can be priced and offered without individual risk profiles and does not require verification of losses to authenticate claims. This makes such products easier to administer and less expensive to provide in environments in which profiling risk or verifying claims are expensive. Index products have been piloted in several programs conducted in India and various countries in Africa and Latin America.

In 2008, researchers at Cornell University, the BASIS Research Program at the University of California, Davis, Syracuse University and the International Livestock Research Institute (ILRI) collaborated to develop the Index Based Livestock Insurance (IBLI) product, which was designed to protect pastoralists from drought-related livestock mortality.[1] The product was piloted in Marsabit District (now County) in Kenya in 2010 with partners at Equity Bank and UAP Insurance Company. Marsabit district was chosen for this pilot for several reasons. First, the district is typical of much of northern Kenya and Africa's arid and semi-arid areas, where pastoral livelihood systems are dominant and drought is the most pervasive hazard, natural or otherwise. Over the past 100 years before the pilot, northern Kenya experienced 28 major droughts, 4 of which occurred in the 10 years before the pilot (1999-2009). For livelihoods that rely solely or partly on livestock, the resulting high livestock mortality has devastating effects, rendering these pastoralists amongst the most drought-vulnerable populations in Kenya. Climate change may further increase drought risk, vulnerability, and poverty in the region. Secondly, reliable data on historic livestock losses, which was used to develop and verify the IBLI product, was available for the region through the Pastoral Risk Management Project and the Arid Lands Resource Management Projects (PARIMA) whereas no data existed of similar quality for alternative sites. Lastly, Marsabit District boasts a host of active local organizations and agencies that create a suitable innovation system for such a novel product (see Matsaert, Kariuki, & Mude 2011).

In 2012, a similar product was launched in the Borana Zone of Ethiopia. At the same time, the IBLI product in Kenya was evolving in response to feedback from providers and clients, and to allow for greater scaling. By 2015, the IBLI market in Kenya had spread across most of the dryland regions and was offered by several insurance companies and was being used by government and NGOs to support their objectives. Since 2015, IBLI has continued to scale both inside Kenya and Ethiopia, as well as into additional countries.[2]

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[1] See Chantarat et al. (2013) for details of the development and of the insurance policy.

[2] For more general information on the research and development process of the IBLI product, the pilots in Marsabit, and a complementary effort in Borena (southern Ethiopia), visit https://www.drylandinnovations.com/. The website also contains a host of papers with more analytical detail regarding the theoretical, analytical, and modeling processes, as well as updates on implementation and scaling.

This codebook is for longitudinal household survey data collected between 2009 and 2020 in Marsabit County as part of a research design launched in 2009 aimed at assessing the impacts of IBLI on its clients. As noted in the forward, users of the data would be well served by reading through the 2nd edition of this codebook, which can be found at https://data.ilri.org/portal/dataset/ibli-marsabit-r1 and which provides much greater detail on the IBLI product and the randomized treatments implemented between 2009 and 2015. The objective of this codebook is to provide the information needed to use the 7-round panel accurately.

2.2   Impact assessment: multi-year survey strategy

A multi-year impact evaluation was designed and implemented alongside the pilot in Marsabit. The study included a baseline survey collected in 2009 before IBLI was available, followed by longitudinal rounds in 2010, 2011, 2012, 2013, 2015, and 2020. Table 1 shows the dates of the household survey rounds, IBLI sales, and indemnity payout period during the project's lifetime.

Table 1. Dates of household survey rounds, sales, and indemnity payout periods.

Date	Household Survey	Firm Selling IBLI in Marsabit District	Index Units with IBLI Payouts
2009: October-November	Round 1		
2010: January-February		UAP	
2011: August-September		Inactive	
2010: October-November	Round 2		
2011: January-February		UAP	
2011: August-September		UAP	
2011: October-November	Round 3		
2011: October-November			Maikona, Central/Gadamoji, Laisamis, Loiyangalani
2012: January-February		Inactive	
2012: March-April			Central/Gadamoji, Laisamis
2012: August-September		APA	
2012: October-November	Round 4		
2013: January-February		APA	
2013: August-September		APA	
2013: October-November	Round 5		
2014: January-February		APA	
2014: March-April			Loiyangalani
2014: August-September		APA	
2015: January-February		APA	
2015: March-April			Maikona, Laisamis (exgratia), Loiyangalani (exgratia)
2015: August-September		APA, TIA	
2015: October-November			Maikona, Loiyangalani
2015: October-November	Round 6		
2016: January-February		APA, TIA	
2016: August-September		APA, TIA	
2017: January-February		APA, TIA	
2017: March-April			Maikona, Central/Gadamoji, Laisamis, Loiyangalani
2017: August-September		TIA	
2017: October-November			Maikona, Central/Gadamoji, Laisamis, Loiyangalani
2018: January-February		TIA	
2018: March-April			Central/Gadamoji, Laisamis
2018: August-September		TIA	
2019: January-February		TIA	

2019: August-September		TIA	
2019: October-November			Maikona, Central/Gadamoji, Laisamis, Loiyangalani
2020: January-February		TIA	
2020: August-September		TIA	
2020: October-November	Round 7		

Notes: APA = APA Insurance (https://www.apainsurance.org/), TIA = Takaful Insurance of Africa (https://takafulafrica.co.ke/)

2.3 Household survey instruments (overview)

The survey instrument contains the following modules in the following sections:

Household demography (Sections 1-5): These sections capture basic demographic information of the household including the name, age, gender, relation to the household head, sex, education, health, and key economic roles of all members. Household education attainment is carefully probed with questions on years of participation and rates of absenteeism. Questions on health pertain to permanent, chronic, and temporary illnesses as well as access to treatment facilities.

Nutritional and health outcomes data, such as the weight, height, and mid-upper arm circumference (MUAC) for children under the age of five is collected. Information about household members living away from the main household unit is also recorded.

Livestock accounting, holdings, and production (Section 6): This section includes data on (1) the current herd size and composition classified by species, gender, maturity, and lactation state; (2) details on livestock losses, slaughter, and births over the last 12 months; (3) information on other livestock transactions, both intake and offtake such as sales, purchases, gifts, borrowing, lending, exchanges; and (4) seasonal milk production and sales over the last year (four seasons).

Perception on risk of livestock loss and drought (Section 7): This section solicits self-reported perceptions on several factors that could be related to livestock loss. This section also tracks the main livelihood activities of the household and drought coping strategies.

Livelihood activities and income sources (Section 8): This section records self-reported seasonal income sources and amounts earned for the four seasons starting with the most recent dry and rainy seasons. This information is recorded by income source (e.g., sales of livestock, sales of livestock products, sales of crops, casual labor, employment and salary labor, trading, etc.) and the household members who received the income. Information on remittances over the past four seasons is also recorded here.

Formal/informal transfers, food aid, and employment programs (Section 9): These sub-sections include details on cash and estimated monetary values of in-kind transfers by source and season, food aid, school feeding, supplementary feeding programs, and cash for work program participation.

Herd migration and satellite camp information (Section 10): This section contains questions about movement to and time spent at various common satellite camps during seasonal herd migration.

Food and non-food expenditures and consumption (Section 11): These sub-sections record details on the actual consumption of food items over the past seven days, under the assumption that this time frame represents a typical week. Values of non-food consumption/expenditure on a monthly, three

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months, or annual basis (as appropriate) are recorded. Expenditures specific to livestock are also recorded. Together, these sub-sections should fully account for household expenditures.

Housing and amenities (Section 12): This section records the type of dwelling (e.g., main material, floor, walls), cooking appliances, fuel, lighting, and sources of and access to drinking water of the household.

Asset inventory and agriculture (Section 13): These sub-sections record total assets currently owned by the household, including landholdings, other livestock, and other assets.

Saving, borrowing, and lending (Section 14): These sub-sections contain information on household's use of financial institutions, including borrowings and lending over the past year, perceptions on the source of credit and difficulty of obtaining credit for various purposes, and the goods acquired on credit.

Network groups, IBLI, and HSNP (Section 15): This section contains details about the groups and organizations to which household members currently belong. All of the details about IBLI information sources, purchase decisions, discount coupons, encouragement design, and indemnity payouts are included as sub-sections. Household knowledge of and experience with a complementary Hunger Safety Net Program (HSNP) are also included. A sub-section is also included about other coping strategies employed by the household.

Experiment on risk preference (Section 16): This section elicited risk preferences from households the first time they are surveyed (baseline for all households except replacements). This experiment relies on a coin toss gamble where risk and return are positively correlated. The respondent is shown a series of six images of head and tail sides of a Kenyan coin and associated amounts of money and is asked to choose their preference. Possible outcomes range from risk neutral to extremely risky. The six gambles are displayed in Table 2.

Table 2. Risk preference experiment choices

Choice Number	Heads Amount (KSH)	Tails Amount (KSH)
0	50	50
1	45	95
2	40	120
3	30	150
4	10	190
5	0	200

Household feedback (Section 17): This section was administered to survey respondents during round five (October-November 2013) data collection to ascertain information about household perceptions of the value of the information they are providing and their attendance at a community meeting in September 2013 where growing concerns from respondents about answering the same survey questions every year were addressed and some descriptive statistics from the first four rounds were presented.

2.3.1 Sections added in Round 7
Decision making (Section 18): A set of questions on who makes various decisions in the household.

Emotional health (Section19): The shortened, ten question version, of the Center for Epidemiologic Studies Depression Scale. This shortened version is often referred to as the 10 Item CES-D or CESD-10.

Conflict (Section 20): This section is composed of a series of questions on if and how conflict has impacted the participants and their communities.

Cognitive wellbeing (Section 21): This section is composed of a set of questions testing short-term memory.

Mobile phones and market participation (Section 22): This section is composed of questions on mobile phones, their use, and their role in market information and participation.

Other programming (Section 23): This section asks the respondents if they have participated in projects related to Afriscout or by BOMA, both of which have interventions targeting pastoralists in Marsabit County.

Food Security (Section 24): This section is composed of a set of questions about food security in the last seven days and 30 days and subjective well-being between 2015 and 2020.

2.4   IBLI product design and seasonality

IBLI was first sold in Marsabit District in January 2010 by UAP Insurance. IBLI was marketed and sold during two sales windows periods occurring directly before the two rainy seasons (August-September and January-February) with insurance coverage periods lasting 12 months from the end of the sales window and having the potential for two indemnity payouts.[3]

The original IBLI contract relied on an index of estimated average livestock mortality that was generated by a function of standardized Normalized Differenced Vegetation Index (NDVI) that had been calibrated using historic livestock mortality data from the region (see Chantarat et al. (2013) for more details). Since then, the index has evolved several times, as have the insurance units—the administrative boundaries used to define coverage—and the policies themselves. From 2015 through present day (2022), the IBLI policies now provide payouts based on anomalies to rainy season biomass accumulation, as indicated by an NVI anomaly index, and the index calculation can be made 1-3 months earlier than for the original index calculation, which allows insurance firms to make payouts earlier that those for the original product.

Here we note that previous versions of this codebook included details on the IBLI contract, premium rates, insurance units, payouts, etc. Given the many iterations that the IBLI product has seen since that codebook, it now falls outside the scope of the survey codebook do document those details. Please refer to the provided sources for more details on the processes used to calculate the index (Vrieling et al. 2016).

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[3] Note that if a pastoral household buys IBLI in both the August-September sales period and the following January-February sales period, then the insurance coverage periods for the two contracts are overlapped from March to September and it may receive indemnity payouts for the both contracts in October-November. This temporally-overlapping design allows households to insure the same number of livestock but pay less on more frequent intervals.

In Marsabit, IBLI was sold by UAP Insurance and Equity Bank for the first three sales periods and by APA Insurance since the fourth sales period. Between 2015 and 2017, both APA and TIA actively sold IBLI in Marsabit, but we have not seen any sales by APA in Marsabit after 2017. Thus far, ILRI has always been responsible for calculating the index and providing it to insurance firms and stakeholders.

3 Sample Design and Selection

3.1 Survey site selection methodology

Marsabit district is located within the Eastern Region of Kenya, within which there are (in decreasing order of size and population) divisions, locations, and sub-locations. The sub-location is the primary geographic sampling unit for our survey. The geographic levels and names used in this survey and codebook predate the move from districts to counties in Kenya, as mandated by the 2010 constitution and established in 2013.

A potentially confounding project that influenced survey planning and design for IBLI evaluation is the UK's Department for International Development (DfID)-funded Hunger Safety Net Program (HSNP). HSNP provides regular monthly cash transfers to a select group of target households in Marsabit. This cash injection could trigger household behavioral changes similar to those attributable to livestock insurance. Further the joint effects of both livestock insurance and regular cash infusions might be difficult to disentangle and attribute to a particular intervention. As potentially significant interventions, it is also important to isolate the level of individual and joint impact that each of the interventions have. Therefore, in order to control for the effects of the HSNP cash transfer project and appropriately attribute impacts, sub-location selection for the IBLI project deliberately includes both those communities specifically targeted by HSNP and some communities that are not.[4]

16 sub-locations from the 47 in Marsabit District at baseline survey time (2009) were purposively selected for inclusion in this survey. The selection process was aimed at ensuring that the sample represents a broad variation of livestock production systems, agro-ecologies, market accessibility, and ethnic composition but it means that the sample is not necessarily representative of the population of Marsabit District. Of the 16 sub-locations included, 8 were initially targeted by HSNP. HSNP coverage expanded in April 2011 in line with their impact evaluation strategy.

3.2 Sample household selection methodology

3.2.1 Number of households in each sub-location

It was estimated that a sample size of around 860 households would be necessary to detect the effects of IBLI on income and livestock holdings based on distribution of income and livestock holding in PARIMA Marsabit 2000-2002 data.[5] An intermediary sample size of 1,000 was chosen (with full knowledge that it would be later cut) then parceled among the 16 sub-locations so that distribution would be proportional to the relative number of households in each sub- location based on 1999 Kenya

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[4] Moreover, the contents of this survey were deliberately matched with those in the HSNP survey so that interested researchers can analyze the both data sets more easily. HSNP survey data are publicly available at the World Bank web site. For more information, see: http://microdata.worldbank.org/index.php/catalog/1915 (2009/10 baseline data), http://microdata.worldbank.org/index.php/catalog/1916 (2010/11 first follow up round), and http://microdata.worldbank.org/index.php/catalog/1917 (2012 second follow up round).

[5] For information about this program and data can be accessed here: http://dyson.cornell.edu/special_programs/AFSNRM/Parima/projectdata.htm .

Population and Housing Census by Kenya Central Bureau of Statistics. However, in order to have enough variation within less populated sub-locations and to not over-represent more populous areas, a minimum sample size of 30 households and maximum of 100 households was set for all sub-locations. This process resulted in a final sample size of 924 households. Table 3 shows the process of moving from the population to the final sample size and its distribution across space.

Table 3. Number of households in each sub-location

Sub-location ID	Sub-location name	1999 Population and Housing Census	Intermediary sample size	Final baseline sample after minimum and maximum rules applied	IBLI index area
1	Dakabaricha	346	38	38	Central/Gadamoji
2	Dirib Gombo	886	97	97	Central/Gadamoji
3	Sagante	277	30	30	Central/Gadamoji
4	Bubisa	692	76	76	Maikona
5	El Gade	475	52	52	Maikona
6	Kalacha	1,179	130	100	Maikona
7	Turbi	389	43	43	Maikona
8	Karare	502	55	55	Central/Gadamoji
9	Kargi	1250	137	100	Loiyangalani
10	Kurkum	137	15	30	Loiyangalani
11	Logologo	418	46	46	Laisamis
12	Illaut	335	37	37	Laisamis
13	Lontolio	253	28	30	Laisamis
14	Loyangalani	1,147	126	100	Loiyangalani
15	Ngurunit	380	42	42	Laisamis
16	South Horr	427	47	47	Loiyangalani
Total		9,093	1,000	924	-

Note: Sub-location IDs are as they appear in the data files. Index areas are based on the division administrative unit, which followed district in 2009. The Central/Gadamoji index area is combination of Central division and Gadamoji division due to their similarities.

3.2.2   Sampling households in each sub-location
In September 2009, just before the implementation of the baseline data collection, ILRI researchers and local enumerators traveled to each sub-location and requested that chiefs and local elders develop a list of all inhabitants. External lists, such as from food aid distributing organizations, were also included or used to augment what was collected from these leaders. Key informants were then asked to classify households into three wealth classes based on livestock holdings: (1) low, meaning less than 10 TLU; (2) medium, with between 10 and 20 TLU; and (3) high, owning more than 20 TLU. In nearly all cases a TLU class could be identified for the households in the population.[6] For each sub-location, one-third of the study sample is randomly sampled from each of the three TLU classes. In some sub-locations, the total number of households in the high TLU class (i.e., within the sampling frame) is less than one-third of the targeted number of study households. In these cases, we randomly sampled households from medium TLU class to fill the deficit. The distributions were adjusted after resampling.

3.2.3   Procedure for replacing households
During survey implementation, some care was taken to wait for households that were simply away from their household for a short period (generally less than three days), but the field teams made no

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[6] In two sub-locations (Dakabaricha, Dirib Gombo), more than 10 percent of the population contained missing TLU class categories. In these cases, the households with a missing classification were randomly assigned a TLU class following the known distribution of classes for the households with complete data. In other sub-locations, only one or two households from the full population contained missing values and were, therefore, assigned to the TLU class with the highest proportion based on the known distribution (generally the low TLU class).

effort to track households said to be away for an extended period of time.

Throughout survey rounds 1 through 6, the same procedure for household replacement was used to maintain a sample size of 924 households across rounds. When a selected household was not available for survey, the field supervisors replaced them with a randomly selected household from the that community's roster developed at baseline and from within the same TLU class. This replacement strategy has yielded a consistent sample of 924 households across rounds 1-4, with one short (923 total) in round 5 and five short (919 total) in round 6. More details on the number of replacement households within each sub-location and follow-up round can be found in Table 4. The number of households consistently interviewed across the first six rounds of survey data is 770.

Round 7 targeted the full subset of households that had successfully been interviewed twice in rounds 1-6 and had never asked to be removed from the study. This subset was selected so that the final round would be as inclusive as possible while focusing on households for whom there was already more than one observation.

Table 4. Total households surveyed (N) and number of those surveyed that were new replacements (R) in each round, by sub-location.

Sub- location	Round 1	Round 2		Round 3		Round 4		Round 5		Round 6		Round 7	
	N	N	R	N	R	N	R	N	R	N	R	N	R
Dakabaricha	39	39	0	39	0	39	1	40	0	39	1	39	0
Dirib Gombo	97	97	4	97	6	97	2	97	1	97	1	87	0
Sagante	30	30	0	30	0	30	1	29	0	30	1	26	0
Bubisa	76	76	9	76	5	76	2	75	1	75	3	69	0
El Gade	51	47	6	52	5	47	0	47	0	48	7	52	0
Kalacha	101	105	3	100	1	105	1	106	2	104	3	101	0
Turbi	43	43	0	43	0	43	0	43	0	43	1	44	0
Karare	55	55	4	55	0	54	1	53	2	54	3	47	0
Kargi	100	98	1	98	0	98	2	96	2	93	19	96	0
Kurkum	30	32	0	32	2	32	2	34	0	34	3	36	0
Logo Logo	46	46	3	46	1	46	5	46	1	45	0	51	0
Illaut	38	37	2	37	0	37	0	37	0	37	1	36	0
Lontloio	30	30	0	30	0	31	1	31	0	31	2	31	0
Loiyangalani	100	100	3	100	5	100	7	100	2	100	2	105	0
Ngurunit	41	42	0	42	1	42	1	42	0	42	1	43	0
South Horr	47	47	2	47	4	47	1	47	2	47	4	49	0
Total	924	924	37	924	30	924	27	923	13	919	52	912	0

3.3   Weighting factors

Household level data can be weighted using the included survey weights (see file "S0A Household Identification Information") to create statistics representative of the population and livestock holding distribution at the sub-location level. These household weights were calculated (and re-calculated for re-interviewed households) after each survey round using the population and livestock census conducted by the IBLI team in 2009.

The sampling weight (the probability weight) of a household with TLU class j in sub-location i (w_{ij}) is the inverse of the sampling fraction:

$$w_{ij} = \frac{N_{ij}}{n_{ij}}$$

where n_{ij} is the number of sampled households with TLU class j in sub-location i, and N_{ij} is the number of household with TLU class j in sub-location i from the population list.

The missing TLU class information mentioned in footnote 6 was important to obtaining credible weights. In addition to the replacement procedure described in footnote 6, we were able to update the randomly assigned value for households that were chosen for the survey sample using the total livestock herded observed in the round 1 data (s6q1).[7]

As a word of caution, the weights are based on 2009 data and have not been updated to reflect attrition or changes to the populations within the communities. Researchers should think carefully about the implications of using weights or not.

4 Encouragement Design

From a strict impact assessment perspective, pure randomized control trials of IBLI would have arguably offered the ideal opportunities to study the impact of IBLI. However, given that this is a commercial product mediated through the market, it would not be feasible to refuse a subset of interested buyers from purchasing insurance cover. Furthermore, such social experimentation, by expressly excluding certain locations from the insurance for the purposes of a study would likely result in a backlash from communities that could jeopardize the entire effort. Moreover, given that in this case subjects self-select into the treatment (i.e., they choose whether to buy insurance or not), many of the techniques of randomization-based experimental design and impact attribution are no longer valid.

Under such a scenario, one needs to apply an encouragement process in which randomly selected subset of the study sample receives additional encouragement to self-select into the treatment. In this way we can control for self-selection bias, differentiating between those people who received encouragement but did not purchase insurance or purchased it in relatively small amounts and those who purchased insurance though they did not receive encouragement. In our sample, encouragement and randomization was achieved in two ways: (1) IBLI games intended to increase knowledge of the product and (2) discount coupons which reduced the price of purchasing a contract. Other forms of encouragement were employed by the private insurance companies but are not considered in our impact evaluation strategy.

4.1   IBLI knowledge games

To transfer knowledge about the IBLI product, households in a sub-sample of sub-locations were selected to play a comprehensive educational insurance game between December 2009 and January 2010 (one time) based on the pastoral production system and designed to illustrate the key features of the IBLI product under different risk regimes. The game allowed pastoralists to randomly select three initial herd size levels that represent potentially different wealth trajectories and was typically played across many seasons to generate herd dynamics. The game then accounted for seasonal consumption, organic herd growth and loss (gains) from inbuilt idiosyncratic and covariate risk patterns modeled along the probabilities observed in Marsabit district. The insurance game and its results were recorded

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[7] There are some sample households with neither TLU class in the sampling frame nor number of livestock herded in round 1 because they entered the survey as a replacement in round 2 or later. For such households, we replaced missing TLU class with the TLU class based on round 2 data. If number of livestock herded is not available either, we replaced missing TLU class with the TLU class based on round 3 data, and so on.

in a program designed in GameWeb.

See McPeak, Chantarat, and Mude (2010) and Lybbert *et al.* (2010) for a full discussion of the index insurance game. A separate data codebook and description of the insurance game is available and can be sourced from the project website (www.ilri.org/ibli). The key lessons from the insurance game were:

1) If you pay for insurance and the index is not triggered, then you do not receive your money back;
2) You will only receive payments if the index is triggered and the amount of payment depends on how many livestock you insure and the level of the trigger; and
3) You are not paid according to your individual experience but according to a covariate index.

The insurance game was played in 9 sites out of 16 sub-locations, and with only half of the households surveyed in each. After separating the set of sub-locations based on HSNP status, the sub-locations are clustered based on similar attributes to ensure variation across these characteristics when distributing the encouragement interventions. For instance, Dakabaricha and Dirib Gombo are similar in ethnic composition, location, and other attributes. The same can be said of Turbi and Bubisa or Kargi and Kurkum and so on. As researchers should be able to combine the IBLI data with the HSNP data, we have more IBLI game sites (9 as opposed to 7) to balance the combined data (since HSNP field work does not include the playing of the IBLI game amount its sample respondents). Table 5 shows the breakdown of sub-location by IBLI game and HSNP intervention status.

Table 5. IBLI game stratification across sub-locations based on HSNP status.

	IBLI GAMES	NO IBLI GAMES
HSNP	Dirib Gombo	Dakabaricha
	El Gade	Kalacha
	Kargi	Kurkum
	Logologo	Lontolio
NO HSNP	Karare	Sagante
	Turbi	Bubisa
	Illaut	Ngurunit
	Loyangalani	
	South Horr	

4.2   Discount coupons

The second form of encouragement was achieved through the provision of discount coupons given to a rotating sub-sample of surveyed households in each of the 16 sub-locations. The coupons entitle the household to a discount on the premium for the first 15 TLU insured. Coupon recipients were randomly selected from all surveyed households in each sub-location. In each sub-location, 60 percent of the sample households randomly received a discount coupon ranging from 10-60 percent, at 10 percent intervals. The remaining 40 percent of households within each sub-location did not receive discount coupons.[8] Unlike the one-time IBLI game, this random coupon assignment was rerandomized

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[8] In August-September 2013 sales period, this distribution changed. In each sub-location, 80 percent of the sample households randomly received a discount coupon ranging from 10-80 percent, at 10 percent intervals. The remaining 20 percent of households within each sub-location did not receive discount.

and reimplemented before each sales period conducted before the 5th survey round. The discount coupons not only provide encouragement, but also useful exogenous price variation.

Figure 1. IBLI discount coupon (front and back)

IBLI Discount Coupon

ILRI — INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE

Name: **Kame Godana Abusho**
Household ID: 4002
Sub-location: Bubisa
Village: Kambi Manyatta

Discount rate: 30%

You have been selected as a recipient of this discount coupon for Jalali Insurance. Only you, **Kame Godana Abusho**, or any household member listed in the survey you participated in between October-November 2009, will be able to use this discount coupon.

This coupon entitles you to a 30% discount when you purchase Jalali Insurance. The discount only applies to the first 15 Tropical Livestock Units (TLU[1]). Jalali Insurance will be available to purchase from 23rd January to 28th February 2010 and the discount only applies to insurance bought in this period.

To receive the discount, you or your household member must show this coupon and your ID card[2].

[1] 1 Cattle = 1 TLU. 1 Camel = 1.4 TLU. 1 goat/sheep = 0.1 TLU. Note that you can insure any portion of your livestock, which can be less or more than 15 TLU, but you will have discount premium only for the first 15 TLU. Please see the back of this coupon on how TLU and discount work.
[2] This discount coupon is provided to you only for research purposes and you were selected randomly from the households who participated in the survey between October-November 2009. For more information contact Brenda Wandera, International Livestock Research Institute, P.O. Box 30709 Nairobi 00100, Tel: 020 422 3000.

Calculating TLU.
- 1 Cattle = 1 TLU.
- 1 Camel = 1.4 TLU.
- 1 goat/sheep = 0.1 TLU.
- Example 1. If you would like to insure 3 cattle and 20 goats/sheep, your TLU insured is $3 \times 1 + 20 \times 0.1 = 5$ TLU.
- Example 2. If you would like to insure 4 cattle, 7 camel, and 12 goats/sheep, your TLU insured is $4 \times 1 + 7 \times 1.4 + 12 \times 0.1 = 15$ TLU.

Discounted Premium
We value 1 TLU at 15,000 KSh and the insurance premium rate for Upper Marsabit (Marsabit North district) is 5.5%[1]. Table 1 shows how much the insurance would cost under different TLU insured and different discount rate.

Table 1. Total insurance premium for Upper Marsabit

TLU	without discount	with discount of 10%	20%	30%	40%	50%	60%
3	1,650	1,485	1,320	1,155	990	825	660
5	4,125	3,713	3,300	2,888	2,475	2,063	1,650
10	8,250	7,425	6,600	5,775	4,950	4,125	3,300
15	12,375	11,138	9,900	8,663	7,425	6,188	4,950
20	16,500	15,263	14,025	12,788	11,550	10,313	9,075
25	20,625	19,388	18,150	16,913	15,675	14,438	13,200

[1] These values are tentative as on 21st January 2010 and the values may change slightly.

4.3   Encouragement design in practice

Ensuring that the encouragement design proceeded exactly as envisioned was a challenge, especially since some parts of the implementation was handled through remotely supervised local agents hired temporarily by IBLI staff for this specific purpose. Discount coupons should have been distributed and explained by agents to the pastoralist households, most of whom cannot read. For the IBLI game, agents may even have invited all intended households for the meeting, however guaranteeing that households show up is infeasible.

Because of these possible failings in perfect encouragement design implementation as well as a general concern about the potential for recall error, we include both the "intent to treat" variables based on the planned encouragement design in the data file "S15E Game and Discount Coupon" as well as the household responses to whether they received each treatment in the data files "S15A Groups, IBLI, HSNP.dta" and "S15B IBLI contracts.dta."

5 Survey Implementation

Survey rounds 1 and 2 were collected on paper questionnaires and entered using Microsoft Access by four data entry clerks under the supervision of an ILRI staff member in the Nairobi office after the completion of field work. Rounds 3-6 were collected directly on small portable computers using the survey software SurveyBe.

Digital data received basic cleaning by a team of ILRI staff members and Cornell University graduate students after each round. After round 5, a substantial cleaning effort was undertaken between April and September 2014 so that the first five rounds could more easily be merged for panel data analysis. This involved creating consistent variable names and labels, value, value label, and missing value coding over survey rounds. No data were otherwise altered during this process. Round 6 was subsequently cleaned and harmonized with round 1-6.

Round 7 was collected using the ODK-based SurveyCTO software. The surveys were uploaded to servers every several days. After the survey was completed, the research team lightly cleaned the Round 7 data, and then merged and harmonized the data with the existing panel containing rounds 1-6. While this process necessitated several changes to the existing panel, the researchers tried as much as possible to maintain the data structure and variable names of the existing panel. Round 7 also included several modules that were not included in the original panels and did not include some modules that were in the original panel.

6 Household Questionnaire and Data Use

The following sub-section contains the details necessary for researchers to use the resulting Stata data files in their analysis.

6.1   Unique identifiers

Throughout all the Stata files, households can be identified using the variable "hhid," a unique ID assigned to each interviewed household that is consistent over all rounds. The first 1-2 digits of this variable correspond to sub-location ID (see Table 3) where a household was interviewed for the first time. The last three digits are the household ID within each sub-location. For example, the household with ID 1024 is the 24th household in the 1st sub-location, Dakabaricha, whereas the household with the ID 16014 is the 14th household in the 16th Study Site, South Horr.

Household member IDs are also consistent between rounds. Those instances when an identifier is not consistent across rounds (e.g., enumerator ID) are flagged in the notes below.

6.2   Missing values

There are various forms of missing values in the Stata files, as described in Table 6. By using these codes consistently, we avoid the confusion of interpreting the different types of missing values. Note that if and when there was a row (observation) with all "Not applicable" ("." and "") in a particular file, then we dropped these rows (observations) in order to decrease data size. We recommend that data users treat such missing values as "Not applicable" rather than "Narrowly defined missing value" although some of them can be missing values of "Narrowly-defined missing value."

Table 6. Missing value types and definitions

Response	String Code	Select Option	Numeric Code	Notes
I don't know	"I don't know"	-98	.a	
Other	Other	-97	-97	
Other (specify)	Other (specify)	-97	-97	
Refused to answer	"" (blank)	.b	.b	Value missed due to one of the following unfortunate reasons:
Narrowly missing value	"" (blank)	.b	.b	• respondent refused to answer to the question • interviewer forgot to ask the question • value was lost due to unknown reason Public data for R1-R6 used "Narrowly missing value" and -77 for this category
Skipped	"" (blank)	.	.	Due to some inconsistencies in documentation and cleaning between rounds, there may be situations where these should coded as narrowly missing or refused to answer, but we cannot observe the true situation.

6.3   Data files and variable descriptions

The series of tables that follow provide the names of the relevant data files, variable names, variable descriptions, and in which rounds each variable was collected by section and sub-section. As each round resulted in some modifications of questions, both insertions and deletions, the tables below identify in which of the rounds the respective variables are available. The data user is encouraged to refer to the original survey questionnaires (written in Excel for rounds 1 and 2, in a SurveyBe report format for rounds 3 through 6 and SurveyCTO/ODK in round 7) and survey tool kits for each survey round which show the complete order, skipping pattern, text and option sets for all questions. To more easily decipher to which set of households each question was asked without referring to the questionnaire reports, Table 7 contains reference codes for the sub-groups of households as they appear in the last three columns (i.e., by survey round) in the tables for each survey section and sub-section that follow.

Table 7. Codes for categorizing sub-groups of households and type of variables.

Code	Sub-group	Description
P	Panel households	Those households that were interviewed more than once over the course of the survey
N	New households	Those households that were not interviewed in the previous round and added to the survey as replacement households
B	Both panel and new households	All households
R	Reference data	This is: • Data from original reference tables (e.g., TLU class, Household ID), • ID numbers that were assigned in a sequence (e.g., Household Member ID, Child ID, Offtake Transaction ID, etc), or • Data from outside of questionnaire (e.g. discount percentage on discount coupons we intended to distribute)
-	Data not collected for any households	

6.3.1 Basic household identifying information

File: "S0A Household Identification Information.dta" Uniquely identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
TLU_class	TLU class	R	R	R	R	R	R	R
weight	Sampling weight (probability weight)	R	R	R	R	R	R	R
slocid	Sub-location ID	R	R	R	R	R	R	R
panelnewhh	1 if new/replacement household, 2 if panel/repeat household	-	-	R	R	R	R	R
Enumerator	Enumerator code (random code+ 100*round)			R	R	R	R	R
interview_day	date of the interview	N	-	-	-	-	-	P
interview_month	month of the interview	N	-	-	-	-	-	P
interview_yr	year of the interview	N	-	-	-	-	-	P
dateinterview	date, month and year of the interview	-	B	-	-	-	-	P
interview_time_date	Interview start time	-	-	B	B	B	B	P
hh_head_ethnic_group	Ethnic group	N	N	N	N	N	N	-
hh_head_ethnic_group_other	Specify Ethnic group	N	-	N	-	N	N	-
hh_head_clan	Clan	N	N	N	N	N	N	-
district	name of the district	N	-	-	-	-	-	-
division	name of the division	N	-	-	-	-	-	-
location	name of the location	N	-	-	-	-	-	-
sublocation	sub-location name (original)	N	N	-	-	-	-	P
sublocation_16	sub-location within the 16 study sub-locations	N	B	B	B	B	B	P
village	Village[1]	-	B	B	B	B	B	P
village_other	If other, what is the village name?	-	-	-	-	N	N	-
Contact_id	Member ID of the contact person for the household	N	B	-	-	-	-	-
Contact_relation	relation of the contact person to the household head	-	B	-	-	-	-	-
contact_relation_other	other specified relationship of the contact name to the household head	N	-	-	-	-	-	-
relationhhead	Contact person's relation to household head	-	-	N	N	N	N	-
interview_time	Interview start time	-	-	P	P	P	P	P
headchange	Did the head change between October last year and September this year?	-	P	P	P	P	P	-
new_hh_head_oldhh	member ID of the new household head	-	-	P	P	P	P	-
codeinterviewee	member ID of main interviewee	N	B	-	-	-	-	-
codeintervieweecnsption	member ID of interviewee for consumption section	-	B	-	-	-	-	-
sameinterviewee	Are the interviewees the same as those in October 2009?	-	P	-	-	-	-	-
notsameinterviewee	If not, supervisor, explain decision	-	P	-	-	-	-	-
interviewee_same	Is the main interviewee the same as in October last year?	-	-	P	P	P	P	-
consumption_interviewee_same	Is the consumption interviewee the same as in October last year?	-	-	P	P	P	P	-
supervisor_decision	If either interviewee is not the same, supervisor, explain decision to proceed	-	-	P	P	P	P	-
interviewee_id_changed	Member ID of main interviewee	-	-	P	P	P	P	-
interviewee_id_cons_changed	Member ID of consumption interviewee	-	-	P	P	P	P	-
householdmove2009	Did the household move out of the sub-location where it was in October 2009?	-	P	-	-	-	-	-

movetowhere	If so, to where?	-	P	-	-	-	-	-
sublocation_previous	Was this the right sub-location in October last year?	-	-	P	P	P	P	-
sublocation_confirmed	If No, what was the correct sub-location?	-	-	P	P	P	P	-
moved_sublocation	Has your household moved to a new sub-location since October last year?	-	-	P	P	P	P	-
new_sublocation	If yes, what is the new sub-location?	-	-	P	P	P	P	-
sublocation_other	Other sub-location specified	-	-	-	P	P	P	-
village_previous	Was this the correct village in October last year?	-	-	P	P	P	P	-
village_confirmed	If no, what was the correct village?	-	-	P	P	P	P	-
<mark>village_other (duplicate)</mark>	Other village specified	-	-	P	P	P	P	-
s1q6_old	Why did the household last move?	-	-	P	P	P	P	-
s1q6_old_other	If other, specify the reason	-	-	-	-	P	P	-
moved500m	Has the household's home stead moved more than 500 meters from where the household was located in October last year?	-	P	P	P	P	P	-
s2q15	Has anyone left the household?	-	B	-	-	-	-	-
s2q18	If the current head is not the same what is the code for the new household head	-	B	-	-	-	-	-
s2q19	Has anyone joined the household?	-	B	B	B	B	B	-
interviewee_newhh	member ID of main interviewee	-	-	N	N	N	N	-
s6q1a	Are these livestock herded exclusively by members of your household, or does someone from outside of the household also assist with herding?	-	-	-	-	-	B	-
s6q1b	If outside assistance, who takes care of the animal? Relative (outside your household)?	-	-	-	-	-	B	-
s6q1c	Clan member?	-	-	-	-	-	B	-
s6q1d	Neighbour?	-	-	-	-	-	B	-
s6q1e	Other?	-	-	-	-	-	B	-
s6q1f	Did you make a monetary or inkind payment for the herding services offered by the caretaker?	-	-	-	-	-	B	-
s6q1g	Did they take care of the livestock at your base camp or/and satellite camp?	-	-	-	-	-	B	-
s6b_comment	Comment on Section 6B Livestock Accounting	-	B	-	-	-	-	-
s6q19	Did your household lose livestock due to mortality and other causes between Oct this year and Sep last year	N	B	B	B	B	-	P*
lossaccountedyn	Have all the losses been accounted for?	-	-	B	B	B	B	P
s6q26	Did your household purchase or obtain livestock between Oct this year and Sep last year?	N	B	B	B	B	-	P*
intakeaccountedyn	Have all the livestock intake been accounted for?	-	-	B	B	B	B	P
s6q35	Did your household have livestock offtake (by sale, giving away, loan, etc.) between Oct this year and Sep last year?	N	B	B	B	B	-	P*
offaccountedyn	Have all the livestock offtake been accounted for?	-	-	-	B	B	B	P
s6q44	Did your household have livestock born between Oct this year and Sep last year?	N	B	B	B	B	-	P*
birthyn	Have all the livestock births been accounted for?	-	-	-	B	B	B	P
s6q48	Did your household slaughter livestock between Oct this year and Sep last year?	N	B	B	B	B	-	P*
slaughteryn	Have all the livestock slaughters been accounted for?	-	-	-	B	B	B	P
s9q1	Has your household received any cash from any other households as a gift in the last 12 months?	N	B	B	B	B	B	P
s9q2	Has your household given any cash to any other households as a gift in the last 12 months?	N	B	B	B	B	B	-
s9q3	Has your household received any in-kind transfer from any other households as a gift in the last 12 months?	N	B	B	B	B	B	P
s9q4	Has your household given any in-kind transfer to any other households as a gift in the last 12 months?	N	B	B	B	B	B	-
s10q7	Did the livestock move from base camp to satellite camp from Oct last year to Sep this year?	-	-	B	B	B	B	-
s10q8	Did your camels move from base camp to satellite camp from Oct last year to Sep this year	-	-	B	B	B	B	-
s10q9	Did your cattle move from base camp to satellite camp from Oct last year to Sep this year?	-	-	B	B	B	B	-
s10q10	Did your shoats move from base camp to satellite camp from Oct last year to Sep this year?	-	-	B	B	B	B	-

nw_codeintervieweecnsption	Please select the interviewee for the consumption section from the drop-down:	N	B	B	B	B	B	-
<mark>interview_end_time</mark>	Interview end time	-	-	B	B	B	B	P
supervisor	Supervisor ID	-	-	B	B	B	B	P
respondent_located_yn	Were you able to meet someone from the survey household?	-	-	-	-	-	-	P[N]
respondent_located_n_why	Why was the household not located?	-	-	-	-	-	-	P[N]
respondent_located_n_why_other	Please specify OTHER	-	-	-	-	-	-	P[N]
respondent_located_n_phone_yn	Does the respondent have a phone number?	-	-	-	-	-	-	P[N]
<mark style="background:#00ff00">respondent_located_n_phone (removed ok)</mark>	What is respondent's phone number?	-	-	-	-	-	-	P[N]
fit_for_interview	Is there a member of the household that is fit to be interviewed?	-	-	-	-	-	-	P[N]
fit_for_interview_other	Please specify other	-	-	-	-	-	-	P[N]
previoussurvey_yn	Between 2009 and 2015, ILRI collected a number of surveys from households in this region. Did they collect a survey from your household at that time?	-	-	-	-	-	-	P[N]
current_residence_sublocation	In which sublocation do you permanently live in?	-	-	-	-	-	-	P[N]
current_residence_sublocation_other	Please specify the other sublocation.	-	-	-	-	-	-	P[N]
current_residence_village	In which village do you permenently live?	-	-	-	-	-	-	P[N]
current_residence_manyatta_other	Please specify the other village.	-	-	-	-	-	-	P[N]
location_home	Was the GPS taken at or near the respondent's home?	-	-	-	-	-	-	P[N]
<mark style="background:cyan">Nameintervieweecnsption</mark>	<mark style="background:cyan">Name of interviewee for consumption section</mark>							
	<mark>Yellow – not found in STATA (maybe not needed);</mark> <mark style="background:#00ff00">Green – see comment</mark>; <mark style="background:cyan">Blue – not in STATA but maybe no need</mark>							

Note: New/replacement households and repeat/panel households are often asked the same questions but the data is stored in different files due to the SurveyBe screen structure, hence the appearance of repeated variable names. Variables s2q15-supervisor are household level questions from other questionnaire sections moved to this data file when the corresponding section has a data file at a level other than household.

* Implies new option values introduced.

[N] Implies new question.

[1] The combinations of several survey-specific variables on village from rounds 1-6.

6.3.2 Comment file

File: "S0B Comment.dta"

This file contains all of the comments that enumerators made about specific data entries while the survey was being conducted in R3-5. In each of the other data files, a binary variable called "comment" has been added to indicate that a particular observation has comment text in this file. You can then locate that comment in this file using the long list of unique identifying variables, "TableName" variable (in R4 and R5 only), and "VariableName" variable. However, note that the entry in "VariableName" might not necessarily match the variable name in the other data files in all cases since some variable names have been changed in the cleaning and panel creation process. The text contained in the "Entry" variable represents the comment that the enumerator left.

6.3.3 Household migration information

File: "S1 Household Information.dta" Uniquely identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
s1q1	main language spoken in this household	N	N	N	N	N	N	-
s1q1b	other specified language spoken by the household	N	N	N	N	N	N	-
s1q2	main religion practiced by the household	N	N	N	N	N	N	-
s1q2b	other specified main religion practiced by the household	N	N	N	N	N	N	-
s1q3	Category that best describe the household in terms of their settlement	N	B	B	B	B	B	P
s1q4a	number of years the household has been at the current location	N	N	N	N	N	N	-
s1q4b	additional number of months the household has been at the current location	N	N	N	N	N	N	-
s1q6	reason that caused the moving/migration of household if they did	N	N	N	N	N	-	-
s1q6b	other specified reason that caused the moving/migration of household if they did	N	N	N	N	N	-	-
s1q7	from where did the household last move	N	N	N	N	N	-	-
s1q8	Did the household move between October 2009 and September 2010?	-	P	-	-	-	-	-
s1q9	If yes, why did the household move?	-	P	-	-	-	-	-
s1q9b	If other, specify why	-	P	-	-	-	-	-

Note: s1q6-s1q7 are asked if answers to s1q4a and s1q4b are less than 20 years. Questions similar to s1q8 and s1q9 in R3-5 are found in "S0A Household Identification Information.dta"

6.3.4 Household roster

File: "S2 Household Rosters.dta"

Uniquely identifying variables: hhid, round, memberid

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
memberid	Member ID	R	R	R	R	R	R	R
s2q2	Gender of [member]	N	B	B	B	B	B	P
s2q3	Age of [member]	N	B	B	B	B	B	P
s2q5	Relationship of [member] to the household	N	B	B	B	B	B	P*
s2q27	Relation to current head if the household head changed	-	P	-	-	-	-	-
s2q20	Main reason why [member] joined this household	-	P	P	P	P	P	-
s2q20b	Specified reason why [member] joined this household	-	P	P	P	P	P	-
s2q17	Why did [member] leave this household?	-	P	P	P	P	P	-
s2q17b	Specified reason why [member] left	-	P	P	P	P	P	-
s2q18	Months [member] present in the household between Oct previous year and Sep current year	-	-	P	P	P	P	-
s2q4b	Year of birth if [member] is under 5 years	N	B	B	B	B	B	-
s2q4a	Month of birth if [member] is under 5 years	N	B	B	B	B	B	-
s2q6	Marital status of [member]	N	B	B	B	B	B	-
s2q7	Number of wives/partners if [member] is a married man	N	B	B	B	B	B	-
s2q8a	Member ID of [member]'s wife	N	B	B	B	B	B	-
s2q8b	Member ID of [member]'s wife (2nd)	N	-	-	-	-	-	-
s2q8c	Member ID of [member]'s wife (3rd)	N	-	-	-	-	-	-
s2q24	Member ID of [member]'s husband	N	B	B	B	B	B	-
s2q21	Does [member] have any biological children?	N	B	B	B	B	-	-
s2q22	Do [member]'s biological children live in this household?	N	B	B	B	B	-	-
s2q23a	Member ID of [member]'s biological children (1st)	N	B	B	B	B	-	-
s2q23b	Member ID of [member]'s biological children (2nd)	N	B	B	B	B	-	-
s2q23c	Member ID of [member]'s biological children (3rd)	N	B	B	B	B	-	-
s2q23d	Member ID of [member]'s biological children (4th)	N	-	B	-	-	-	-
s2q23e	Member ID of [member]'s biological children (5th)	N	-	B	-	-	-	-
s2q9	Is [member]'s biological father alive? (if [member] is under 18)	N	B	B	B	B	-	-
s2q10	Does [member]'s biological father live in this household?	N	B	B	B	B	-	-
s2q11	Member ID of [member]'s biological father	N	B	B	B	B	-	-
s2q12	Is [member]'s biological mother alive? (if [member] is under 18)	N	B	B	B	B	-	-
s2q13	Does [member]'s biological mother live in this household?	N	B	B	B	B	-	-
s2q14	Member ID of [member]'s biological mother	N	B	B	B	B	-	-
s2q25a	What was the marital status in October previous year?	-	-	-	-	P	-	-
s2q25	Did member change his/her marital status between Oct previous year and Sep current year?	-	P	P	P	P	-	-
s2q25a_r6	What was the marital status in October 2013?	-	-	-	-	-	P	-
s2q25_r6	Did member change his/her marital status between Oct 2013 and Sep 2015?	-	-	-	-	-	P	-
s2q26	If yes, what is the present marital status?	-	P	P	P	P	P	-

s2q28	Is [name] less than 6?	-	-	-	-	-	-	P[N]
s2q29	Is [name] the respondent?	-	-	-	-	-	-	P[N]
s2q29a	Respondent index	-	-	-	-	-	-	P[N]
s2q30	Is [name] the head of household?							P
s2q31	Does [name] have an ID number?	-	-	-	-	-	-	P[N]
s2q31a	What is [name]'s id number?	-	-	-	-	-	-	P[N]
s2q31b	Is [name]'s ID available for a photo?	-	-	-	-	-	-	P[N]
s2q31c	If [name]'s card ID is available, please take a photo of the front of it.	-	-	-	-	-	-	P[N]
s2q32	Does [name] have a phone number?	-	-	-	-	-	-	P[N]
s2q32a	What is [name]'s phone number?	-	-	-	-	-	-	P[N]
s2q32b	Is this number registered to an MPesa account?	-	-	-	-	-	-	P[N]
s2q32c	What is the type of phone that you own?	-	-	-	-	-	-	P[N]

Note:

* Implies new option values introduced.

[N] Implies new question.

6.3.5 Education

File: "S3 Education.dta"

Unique identifying variables: hhid, round, memberid

Variable	Label	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
memberid	Member ID	R	R	R	R	R	R	R
skip_s3_new	1 if s3q1-s3q13 are skipped, 0 otherwise	R	R	R	R	R	R	-
s3q1	Can [member] write a simple letter with several sentences in English?	N	B	B	B	B	B	-
s3q2	Has [member] ever attended school or any other type of education facility?	N	B	B	B	B	B	-
s3q3	Is no, why not?	N	B	B	B	B	B	-
s3q3b	If other, specify the reason	N	B	B	B	B	B	-
s3q4	What type of school/education facility did/does [member]?	N	B	B	B	B	B	-
s3q5	At what age did [member] first enroll in school/ educational facility in years?	N	B	B	B	B	B	-
s3q6	What is the highest grade [member] has attained?	N	B	B	B	B	B	P*
s3q6b	If other, specify the grade.	N	B	B	B	B	B	-
s3q7	Is [member] currently attending school? (this academic year, or about to start)	N	B	B	B	B	B	-
s3q8	If not, why not?	N	B	B	B	B	B	-
s3q8b	If other, specify the reason.	N	B	B	B	B	B	-
s3q9a	How long has it been since last time [member] was enrolled in school? (years)	N	B	B	B	B	B	-
s3q9b	How long has it been since last time [member] was enrolled in school? (months)	N	B	B	B	B	B	-
s3q10	Does [member] receive food through the school feeding program?	N	B	B	B	B	B	-
s3q11	Was [member] absent from school for any periods during the term for last 12months?	N	B	B	B	B	B	-
s3q12	If yes, why? (main reason)	N	B	B	B	B	B	-
s3q12b	If other, specify the reason.	N	B	-	-	-	-	-
s3q13	Roughly how many school days did [member] miss in the past 12 months?	N	B	B	B	B	B	-
skip_s3_old	1 if hv_s3q24 -s3q23 are skipped, 0 otherwise	-	R	R	R	R	R	-
hv_s3q24	educational status of [member] in previous year	-	-	R	R	R	-	-
s3q24	Is the educational status of [member] in previous year [hv_s3q24] correct?	-	-	B	B	B	-	-
s3q14a	Can member write a simple letter with several sentences in Kiswahili?	-	-	-	-	-	B	-
s3q14	Can [member] write simple letter with several sentences in English?	-	B	B	B	B	B	-
s3q14a1	Has [member] ever attended school or any other type of school facility?	-	-	-	-	-	B	-
s3q14b	What is the highest grade [member] has attained?	-	-	-	-	-	B	-
s3q15	Was [member] a student in October previous year?	-	B	B	B	B	-	-
s3q16	Did [member] stop going to school between October previous year and September current year?	-	B	B	B	B	B	-
s3q17	If yes, why?	-	B	B	B	B	B	-
s3q17b	If other, specify the reason.	-	B	B	B	-	-	-
s3q18	Did [member] enter or rejoin school between October previous year and September current year	-	B	B	B	B	B	-
s3q19	What type of school/education facility did/does [member] attend between October previous year and September this year?	-	B	B	B	B	B	-
s3q19b	If other, specify the school/education facility.	-	B	B	-	B	B	-
s3q20	Does [member] receive school feeding?	-	B	B	B	B	B	-

s3q21	Was [member] absent from school for any period during the term in the last 12 months?	-	B	B	B	B	B	-
s3q22	If so, why?	-	B	B	B	B	B	-
s3q22b	If other, specify the reason.	-	B	B	B	B	B	-
s3q23	How many school days did [member] miss in the past 12 months?	-	B	B	B	B	B	-
s3q7a	Did your household pay for school fees, school expenses or for transportation to school for [name] in the last 12 months?	-	-	-	-	-	-	P^N
s3q7b	What was the total amount of money PAID BY THE HOUSEHOLD for school fees, school expenses/materials, and transport to school in the last 12 months (Oct 1, 2019-Sept 30 2020.)?	-	-	-	-	-	-	P^N

Note. s3q1-s3q13 are questions for the members who have not asked those question in the past. s3q14-s3q23 are questions for the members who have already asked s3q1-s3q13 in one of the previous rounds.

^{N} Implies new question.

* Implies new option values introduced.

6.3.6 Economic roles

File: "S4 Economic Roles and Mobility.dta"

Unique identifying variables: hhid, round, memberid

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
memberid	Member ID	R	R	R	R	R	R	-
skip_s4	1 if S4 is skipped, 0 otherwise[8]	R	R	R	R	R	R	-
s4q1	What is [member]'s primary activity between October previous year and September current year?	N	B	B	B	B	B	-
s4q1b	If other, specify the primary activity.	N	B	B	B	B	B	-
s4q2	Number of hours [member] is engaged in this primary activity per day	-	B	B	B	B	B	-
s4q3a	How many years has [member]'s engaged in this primary activity?	N	B	B	B	B	B	-
s4q3b	How many months has [member]'s engaged in this primary activity?	-	B	B	B	B	B	-
s4q4	What is [member]'s secondary activity between October previous year and September current year?	N	B	B	B	B	B	-
s4q4b	If other, specify the secondary activity.	N	B	B	B	B	B	-
s4q5	Number of hours [member]is engaged in this secondary activity per day	-	B	B	B	B	B	-
s4q6	Has [member] been absent from the household for any time in the last 12 months?	N	B	B	B	B	B	-
s4q7a	How many months was [member] absent from the household?	N	B	B	B	B	B	-
s4q7b	How many weeks was [member] absent from the household?	-	B	B	B	B	B	-
s4q8	Why was [member] absent?	N	B	B	B	B	B	-
s4q8b	If other, specify the reason.	N	B	B	B	B	B	-

6.3.7 Health

File: "S5A Health.dta"

Unique identifying variables: hhid, round, memberid

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
memberid	Member ID	R	R	R	R	R	R	R
skip_s5q1_10	1 if s5q1 - s5q10 are skipped, 0 otherwise2	R	R	R	R	R	R	-
s5q1	Does [member] suffer from any permanent disabilities?	N	B	B	B	B	B	-
s5q3	Has [member] suffered from an illness that has lasted or is expected to last more than 3 months? (chronic illness)	N	B	B	B	B	B	-
s5q5	APART FROM ANY PERMANENT DISABILITIES OR CHRONIC ILLNESSES, has this member suffered any illness or injury in the last 3 months?	N	B	B	B	B	B	-
s5q2	What is the main permanent disabilities [member] is suffering from?	N	B	B	B	B	B	-
s5q2b	If other, specify the main permanent disabilities.	N	B	B	B	B	B	-
s5q4	What chronic illness did/does [member] suffer from?	N	B	B	B	B	B	-
s5q4b	If other, specify the chronic illness.	N	B	B	B	B	B	-
s5q6	What was the other illness or injury [member] suffered from in the last 3 months? (the most recent)	N	B	B	B	B	B	-
s5q6b	If other, specify the illness or injury.	N	B	B	B	B	B	-
s5q7	How many days was [member] unable to do normal activities because of this illness or injury in the last 3 months?	N	B	B	B	B	B	-
s5q8	Was a health worker consulted for this illness or injury? (first)	N	B	B	B	B	B	-
s5q9a	Who was consulted for this illness or injury? (first)	N	B	B	B	B	B	-
s5q9b	Who was consulted for this illness or injury? (second)	N	B	B	B	B	B	-
s5q10	What was the main reason nobody was consulted for this illness or injury?	N	B	B	B	B	B	-
s5q10b	If other, specify the main reason.	N	B	B	-	B	B	-
s5q10c	Finally, we would like to know if [name] has had any medical fees in the last 12 months. This could include payments for clinic visits, medical related travel, and/or medications. Oct 1, 2019-Sept 30 2020.	-	-	-	-	-	-	P
s5q10d	What was the total amount or medical fees, medicine, and transport to the hospital PAID BY THE HOUSEHOLD for [name] in the past 12 months (Oct 1, 2019-Sept 30 2020.)?	-	-	-	-	-	-	P

Notes: In R4-6, all questions in Section 4 are skipped if a member was passed away in the last 12 months or left his/her household 8 month ago or earlier.

6.3.8 Child Health

File: "S5B Child Health.dta"

Unique identifying variables: hhid, round, memberid

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	household unique identifier	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
memberid	household member's unique identification code	R	R	R	R	R	R	R
skip_s5q11	1 if s5q11-s5q16 are skipped, 0 otherwise	R	R	R	R	R	R	-
s5q11	Is [member] receiving supplementary feeding? (NOT SCHOOL FEEDING)	N	B	B	B	B	B	P
s5q12	Has [member] received the BCG vaccination against tuberculosis (injection in the left arm that usually causes a scar)?	N	B	B	B	B	B	-
s5q13_r3 4	For household children under the age of SEVEN, I would like to measure their height, weight and Mid-Upper Arm Circumference (MUAC). May I do that?	-	-	B	B	-	-	-
s5q13_r5	For household children under the age of SEVEN, I would like to measure their Mid-Upper Arm Circumference (MUAC). May I do that?	-	-	-	-	B	B	-
s5q14	[member]'s MUAC (cm)	N	B	B	B	B	B	-
s5q15	[member]'s length/height (cm)	N	B	B	B	-	-	-
s5q16	[member]'s weight (kg)	N	B	B	B	-	-	-

Notes: In R4, R5, and R6, variables s5q1 –s5q10 are skipped if a member was passed away in the last 12 months or left his/her household 8 month ago or earlier.

6.3.9 Livestock

File: "S6A Livestock Stock.dta"

Unique identifying variables: hhid, round, LivestockID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
LivestockID	Livestock type and gender ID	R	R	R	R	R	R	R*
animaltype	Type of animal	R	R	R	R	R	R	R
gender	Gender of animal	B	B	B	B	B	B	P
s6q1	Total number of animals currently herded by household	B	B	B	B	B	B	P
s6q2	Number of herded animals that are owned by household	B	B	B	B	B	B	P
s6q3	Number of herded animals that are adults (>=3 years for cattle/camel, >=6 months for goat/sheep)	B	B	B	B	B	B	-
s6q4	Number of herded animals that were always kept at home (never moved to satellite camp)	B	B	B	B	B	B	-
s6q5	Number of herded animals that are lactating	B	B	B	B	B	B	-
s6q6	Number of herded animals that are lactating and always kept at home	B	B	B	B	B	B	-
s6q7	Number of herded animals that are lactating and moved to satellite camp	B	B	B	B	B	B	-
s6q66	Number of herded animals that are not owned but have been loaned to you	-	-	-	-	-	B	-
s6q67	Nature of loan (from s6q67)	-	-	-	-	-	B	-

Note: * Implies new option values introduced.

6.3.10 Livestock Accounting

File: "S6B Livestock Accounting.dta"

Unique identifying variables: hhid, round, LivestockID, animaltype5, gender3

Variable	Label	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	R	R	R	R	R	R
round	Survey round	-	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
LivestockID	Livestock type and gender ID	-	R	R	R	R	R	R
animaltype5	Type of animal: camel, cattle, goat, sheep, shoat	-	R	R	R	R	R	R
gender3	Gender of animal: female, male, both	-	R	R	R	R	R	P
hv_s6q1	Number of animals at the end of September previous year	-	-	R	R	R	-	-
hv_s6q1correct	Is the number [hv_s6q1] correct?	-	-	B	B	B	-	-
hv_rsnincorrect	If no, why?	-	-	B	B	B	-	-
s6q8	Number of animal at the end of September previous year	-	B	B	B	B	B	-
s6q9	Number of animal (both genders) at the end of September previous year	-	B	-	-	-	-	-
s6q10	Number of shoats at the end of September previous year	-	B	-	-	-	-	-
s6q11	Number of loss (e.g. death due to starvation, diseases)	-	B	B	B	B	B	P
s6q12	Number of intake (e.g. purchased, received as gifts)	-	B	B	B	B	B	P
s6q13	Number of off-take (e.g. sold, loaned out)	-	B	B	B	B	B	P
s6q14	Number of births	-	B	B	B	B	B	P
s6q15	Number of slaughters	-	B	B	B	B	B	P
s6q16	Number of shoats at the end of September current year	-	B	-	-	-	-	-
s6q17	Number of animals (both genders) at the end of September current year	-	B	-	-	-	-	P
s6q18	Number of animals at the end of September current year	-	B	-	-	-	-	-

6.3.11 Livestock Losses

File: "S6C Livestock Losses.dta"

Unique identifying variables: hhid, round, lossevent

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
lossevent	Loss event ID	R	R	R	R	R	R	R
s6q20a	Year of loss event (between October previous year and September current year)	N	B	B	B	B	B	P
s6q20b	Month of loss event (between October previous year and September current year)	N	B	B	B	B	B	P
s6q21	What type of animal?	N	B	B	B	B	B	P
s6q22	What was the reason for this loss event?	N	B	B	B	B	B	P
s6q22b	If other, specify the reason.	N	B	B	B	B	B	P
s6q23	At your base camp or satellite camp?	N	B	B	B	B	B	-
s6q24	How many of animals were lost?	N	B	B	B	B	B	-
s6q24a	How many loss events did the household face for [animal_type_losses]?	-	-	-	-	-	-	P^N
s6q25	Number of adult animals lost (3 years or more for cattle/camel, 6 months or more for sheep/goat)	N	B	B	B	B	B	-

Note: ^{N} Implies new question.

6.3.12 Livestock Intake

File: "S6D Livestock Intake.dta"

Unique identifying variables: hhid, round, intakeevent

Variable	Label	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
intakeevent	Intake event ID	R	R	R	R	R	R	R
s6q27a	Year of intake from Oct previous year to Sep current year	N	B	B	B	B	B	P
s6q27b	Month of intake from Oct previous year to Sep current year	N	B	B	B	B	B	P
s6q28	Type of animal intaked	N	B	B	B	B	B	P
s6q29	Type of intake	N	B	B	B	B	B	P*
s6q29b	If other, specify the type.	N	B	B	B	B	B	P
s6q29a	What is the nature of the livestock loan received?	-	-	-	-	-	B	-
s6q29a1	From who did you receive the loan?	-	-	-	-	-	B	-
s6q30	Number of animals intaked	N	B	B	B	B	B	P
s6q31	Number of female animals intaked	N	B	B	B	B	B	-
s6q32	What is the main reason for this intake? [1]	N	B	B	B	B	B	P
s6q32b	If other, specify the reason.	N	B	B	B	B	B	-
s6q33	From where did intake animals come?	N	B	B	B	B	-	-
s6q33_r6	From where did intake animals come?	-	-	-	-	-	B	-
s6q34	Average price PER ANIMAL in case of purchased. Or, average value PER ANIMAL if not purchased.	N	B	-	-	-	-	P
s6q34b	Total amount spent on purchasing livestock [2]	-	-	B	B	B	B	P
s6q34c	Is this average price PER ANIMAL in case of purchase correct?	-	-	B	B	B	B	-
s6q34d	How many intake events did the household face for [animal_type_intake]?	-	-	-	-	-	-	P[N]

Note: * Implies new option values introduced. [N] Implies new question.

[1] Dowry as intake transaction is actually bride price.

[2] In R3-6 the total amount spent purchasing livestock was asked instead of the average price per animal. It was felt that the respondents could remember easily the total amount they spend in purchasing the animals. The average price per animal can be computed from the data.

6.3.13 Livestock Offtake

File: "S6E Livestock Offtake.dta"

Unique identifying variables: hhid, round, offtakeevent

Variable	Label	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
offtakeevent	Offtake event ID	R	R	R	R	R	R	R
s6q36a	Year of offtake from Oct previous year to Sep current year	N	B	B	B	B	B	P
s6q36b	Month of offtake from Oct previous year to Sep current year	N	B	B	B	B	B	P
s6q37	Type of animal offtaked	N	B	B	B	B	B	P*
s6q38	Type of offtake transaction	N	B	B	B	B	B	P*
s6q38b	If other, specify the type.	N	B	B	B	B	B	P
s6q38c	What is the nature of the livestock loan given?	-	-	-	-	-	B	-
s6q38d	To whom did you make the loan?	-	-	-	-	-	B	-
s6q39	Number of animals offtaked	N	B	B	B	B	B	P
s6q40	Number of female animals offtaked	N	B	B	B	B	B	-
s6q41	Reason for offtake	N	B	B	B	B	B	P
s6q41b	If other, specify the reason.	N	B	B	B	B	B	P
s6q42	Where were offtake animals sent to?	N	B	B	B	B	-	-
s6q42_r6	Where did you sell your livestock?	-	-	-	-	-	B	-
s6q43	Average price or average value of off-take animals (Kshs)	N	B	-	-	-	-	P
s6q43b	Total amount received from sales	-	-	B	B	B	B	P
s6q43c	Is the average price PER ANIMAL received in case of sold correct?	-	-	B	B	B	B	-
s6q43d	How many offtake events did the household face for [animal_type_offtake]?	-	-	-	-	-	-	P^N

Note: * Implies new option values introduced. ^{N} Implies new question.

6.3.14 Livestock Births

File: "S6F Livestock Births.dta"

Unique identifying variables: hhid, round, birthevent

Variable	Label	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
birthevent	Birth event ID	R	R	R	R	R	R	R
s6q45a	Year of birth from October previous year to September current year	N	B	B	B	B	B	P
s6q45b	Month of birth from October previous year to September current year	N	B	B	B	B	B	P
s6q46	Type of animals born	N	B	B	B	B	B	P
s6q47	Number of animals born	N	B	B	B	B	B	P
s6q47b	How many birth events did the household face for [animal_type_born]?	-	-	-	-	-	-	P^N

Note: ^{N} Implies new question.

6.3.15 Livestock Slaughter

File: "S6G Livestock Slaughter.dta"

Unique identifying variables: hhid, round, slaughterevent

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
slaughterevent	Slaughter event ID	R	R	R	R	R	R	R
s6q49a	Year of slaughter from October previous year to September current year	N	B	B	B	B	B	P
s6q49b	Month of slaughter from October previous year to September current year	N	B	B	B	B	B	P
s6q50	Type of animal slaughtered	N	B	B	B	B	B	P
s6q51	Number of animals slaughtered	N	B	B	B	B	B	P
s6q52	Reason for slaughter	N	B	B	B	B	B	P*
s6q52b	If other, specify the reason.	N	B	B	B	B	B	P
s6q52c	How many slaughter events did the household face for [animal_type_slaughter]?	-	-	-	-	-	-	P^N
s6q52d	How much did you sell the [slaughter_season_number] [animal_type_slaughter] for?	-	-	-	-	-	-	P^N
s6q52e	If you had sold the [animal_type_slaughter] you slaughtered, how much would you have sold it for?	-	-	-	-	-	-	P^N

Note: * Implies new option values introduced. ^{N} Implies new question.

6.3.16 Milk Production

File: "S6H Milk Production.dta"

Unique identifying variables: hhid, round, MilkID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
MilkID	Milk ID	R	R	R	R	R	R	R
season	Season	R	R	R	R	R	R	R
camp	Base or satellite camp	R	R	R	R	R	R	R
animaltype	Animal type	R	R	R	R	R	R	R*
s6q53	Did your household have milk production from [animal] at [camp] in [season]?	N	B	B	B	B	B	P
s6q54	Total number of lactating [animal] kept at [camp) in [season]	N	B	B	B	B	B	P
s6q54b	Total number of lactating animals milked for human consumption	-	-	-	-	-	B	-
s6q55	What is the liters equivalent of the containers you use to measure/collect/store /sell milk?	N	-	-	-	-	-	-
s6q56	What container do you use for milking from each [animal]?	-	B	B	B	B	B	P*
s6q56b	If other, specify ml.	-	B	B	B	-	-	P
s6q56a	If other, specify container.	-	B	B	B	-	-	-
s6q57	How many of these [s6q56] containers of milk PER ANIMAL PER DAY did you produce from [animal] kept at [camp] in [season]?	N	B	B	B	B	B	P
s6q58_r2	The answers above imply that you produced AVERAGE [s6q54*s6q57/1000] litres of milk per day. (liter)	-	B	-	-	-	-	P
s6q58	The answers above imply that you produced AVERAGE [s6q54*s6q57/1000] litres of milk per day. Is this correct?	-	-	B	B	B	B	-
s6q59	Did your household sell milk from (animal) in (season)?	N	B	B	B	B	B	-
s6q60	What is the average quantity of milk sold PER DAY FROM TOTAL milking (animal) in (season)?	N	-	-	-	-	-	-
s6q61	What is the average PRICE PER UNIT of milk sold?	N	-	-	-	-	-	-
S6q61a	What is the average current price of 1 liter of ${animatype} milk in your area?	-	-	-	-	-	-	P[N]
s6q62	What container do you use for selling milk from each [animal]?	-	B	B	B	B	B	-
s6q62b	If other, specify ml.	-	-	B	-	-	-	-
s6q62a	If other, specify container.	-	-	B	-	-	-	-
s6q63	How many of these [s6q62] containers PER DAY did you sell on average from TOTAL milking [animal] in [season]?	-	B	B	B	B	B	-
s6q64_r2	The answer above imply that you sold [s6q62*s6q63/1000] litres of milk per day. (liter)	-	B	-	-	-	-	-
s6q64	The answer above imply that you sold [s6q62*s6q63/1000] litres of milk per day. Is this correct?	-	-	B	B	B	B	-
s6q65	What is the average PRICE PER CONTAINER of milk sold? (KSh)	-	B	B	B	B	B	-

Note: * Implies new option values introduced. [N] Implies new question.

6.3.17 Perceptions and Expectations

File: "S7 Perception and expectations.dta" Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
s7q1a	First critical reason for your major livestock loss	N	N	N	N	N	N	-
s7q1a2	Other (specify) for s7q1a	N	N	N	N	N	N	-
s7q1b	Second critical reason for your major livestock loss	N	N	N	N	N	N	-
s7q1b2	Other (specify) for s7q1b	N	N	N	N	N	N	-
s7q1c	Third critical reason for your major livestock loss	N	N	N	N	N	N	-
s7q1c2	Other (specify) for s7q1c	N	N	N	N	N	N	-
s7q2	Expectation about the rainy seasons and rangeland condition over the coming year	N	B	B	B	B	B	-
s7q4a	First most important role of livestock in household	N	B	B	B	B	-	-
s7q4a2	Other (specify) for s7q4a	N	B	B	B	B	-	-
s7q4b	Second most important role of livestock in household [1]	N	B	B	B	B	-	-
s7q4b2	Other (specify) for s7q4b	N	B	B	B	B	-	-
s7q5a	Main income source for last Jun-Sep dry season	N	B	B	B	B	-	-
s7q5a2	Other (specify) for s7q5a	N	B	B	B	B	-	-
s7q5b	Main income source for last Mar-May rainy season	N	B	B	B	B	-	-
s7q5b2	Other (specify) for s7q5b	N	B	B	B	B	-	-
s7q5c	Main income source for last Jan-Feb dry season	N	B	B	B	B	-	-
s7q5c2	Other (specify) for s7q5c	N	B	B	B	B	-	-
s7q5d	Main income source for last Oct-Dec rainy season	N	B	B	B	B	-	-
s7q5d2	Other (specify) for s7q5d	N	B	B	B	B	-	-
s7q5e	Main income source in 2004 (5 years ago in R1)	N	N	N	N	N	-	-
s7q5e2	Other (specify) for s7q5e	N	N	N	N	N	-	-
s7q5f	Main income source in 1999 (10 years ago in R1)	N	N	N	N	N	-	-
s7q5f2	Other (specify) for s7q5f	N	N	N	N	N	-	-
s7q6	Expected portion (0-1) of livestock loss out of 20 between Mar- Feb of coming year	N	-	-	-	-	-	-
s7q6a	Expected number (0-20) of camel loss out of 20 between Mar-Feb of coming year	-	B	B	B	B	-	-
s7q6b	Expected number (0-20) of cattle loss out of 20 between Mar-Feb of coming year	-	B	B	B	B	-	--
s7q6c	Expected number (0-20) of goat loss out of 20 between Mar-Feb of coming year	-	B	B	B	B	-	-
s7q6d	Expected number (0-20) of sheep loss out of 20 between Mar-Feb of coming year	-	B	B	B	B	-	-
s7q6e	The best scenarios describing the household situation since Oct previous year and Sept current year [2]	-	-	-	-	-	B	-
s7q7	Have your household experience food shortage in the last 12 months?	-	-	-	-	B	-	-
s7q8a	If yes, did your household reduce the number of meals eaten each day as a coping strategy? [3]	-	-	-	-	B	B	-
s7q8b	Rely more on food aid? [3]	-	-	-	-	B	B	-
s7q8c	Rely on assistance from others? [3]	-	-	-	-	B	B	-
s7q8d	Pull children (otherwise in school) out? [3]	-	-	-	-	B	B	-
s7q8e	Sell livestock? [3]	-	-	-	-	B	B	-
s7q8f	Increase non-livestock activities? [3]	-	-	-	-	B	B	-
s7q8g	Send family members to look for work elsewhere? [3]	-	-	-	-	B	B	-

s7q8h	Did not do anything different? [3]	-	-	-	-	B	B	-
s7q8i	Have not had food shortage? [3]	-	-	-	-	B	B	-
s7q8j	Other coping strategy? [3]	-	-	-	-	B	B	-
s7q8_other	If other, specify the coping strategy. [3]	-	-	-	-	B	B	-
s7q9_1	What was the most important coping strategy?	-	-	-	-	B	B	-
s7q9_2	The second most important one?	-	-	-	-	B	B	-
s7q9_3	The third most important one?	-	-	-	-	B	B	-

Notes:

[1] In R3-5, s7q4b was skipped if s7q4a was 7 "do not own livestock". In R1-2, such a skip pattern did not exist and in R2 some enumerators seemed to record 99 N/A and some enumerators seemed to record 7 in s7q4b again.

[2] In R6, the respondents were given and explained 4 scenarios (Thriving, Viable, Struggling and Destitute) describing the household situation as at the period being studied. After the respondents have understood the scenarios, the question was asked and one answer option is chosen. The definitions of the 4 scenarios are as follows.

1. Thriving: Your family has many livestock and/or crop field, and other income sources that are a large enough to sustain everyone in your family and plan for the future. You are able to manage any adverse events with your own means, and without great hardship.
2. Viable: Your family has enough livestock and/or crop field, and other income sources that are large enough to sustain you, but not to save for the future. You can meet needs and manage adverse events, but doing so means you have nothing to invest in your herd or other assets.
3. Struggling: Your family has some livestock and crop field, and other income sources that are too small to fully sustain everyone. You are only able to meet needs or manage adverse events by getting outside help and/or selling assets you don't want to sell.
4. Destitute: Your family has very little or no livestock and minimal crop field, and other income sources. You rely on outside support, and when adverse events have hit (or if one were to hit) the effects are long lasting.

[3] In R5, questions s7q8a-s7q8_other was enabled if respondent answered "Yes" in s7q7. In R6, s7q7 was not asked and we intended to ask questions s7q8a-s7q8_other if s7q10 in S7B is yes but ended up ask them to all respondents by accident.

6.3.18 Resilience

File: "S7B Resilience.dta"

Unique identifying variables: hhid, round, shock

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	-	-	R	R
round	Survey round	-	-	-	-	-	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	-	-	-	R	R
shock	Type of shock	-	-	-	-	-	R	-
s7q10	Whether the household was negatively affected by shock between Oct previous year and Sept current year	-	-	-	-	-	B	-
s7q10a	Other specified shock	-	-	-	-	-	B	-
s7q12	The season mostly affected by shock	-	-	-	-	-	B	-
s7q13	The level of severity of the shock on household's primary activity	-	-	-	-	-	B	-
s7q14	Length of time taken by family to recover from shock	-	-	-	-	-	B	-

6.3.19 Livelihood and Income

File: "S8 Livelihood and Income.dta"

Unique identifying variables: hhid, round, Livelihood_ID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
Livelihood_ID	Main livelihood source	R	R	R	R	R	R	R
s8q1	Has anyone in your household earned income from this source in the past 12 months?	B	B	B	B	B	B	P
s8q2	Who is the main person who earned income from the stated source?	B	B	B	B	B	B	-
s8q3	Nature of work - 1st	B	B	B	B	B	B	P
s8q3b	If other, specify the nature of work.	B	B	B	B	B	B	P
s8q4	Nature of work - 2nd	B	B	B	B	B	B	P
s8q4b	If other, specify the nature of work.	B	B	B	B	B	B	P
s8q5	Nature of work – 3rd							P
s8q5a	How much was earned in total in Jun-Sep (dry season) current year?	B	B	B	B	B	B	P
s8q5b	How much was earned in total in Mar-May (rainy season) current year?	B	B	B	B	B	B	P
s8q5c	How much was earned in total in Jan-Feb (dry season) previous year?	B	B	B	B	B	B	P
s8q5d	How much was earned in total in Oct-Dec (rainy season) previous year?	B	B	B	B	B	B	P
s8q5e	Gross expenditure in total in Jun-Sep (dry season) current year?	-	-	-	-	-	-	P^N
s8q5f	Gross expenditure in Mar-June (rainy season) current year?	-	-	-	-	-	-	P^N
s8q5g	Gross expenditure in Jan-Feb (dry season) previous year?	-	-	-	-	-	-	P^N
s8q5h	Gross expenditure in Oct-Dec (rainy season) previous year?	-	-	-	-	-	-	P^N
s8q6_b	If other, specify other salaried employment.	-	-	-	-	-	-	P^N
s8q7_b	If other, specify other casual labor	-	-	-	-	-	-	P^N
s8q8_b	If other, specify other businesses.	-	-	-	-	-	-	P^N
s8q10	Who makes decisions about how the income from this activity	-	-	-	-	-	-	P^N

Note: ^{N} Implies new question.

6.3.20 Crop Income

File: "S8 Income_crops.dta"

Unique identifying variables: hhid, round, Livelihood_ID

Variable	Description	R1	R2	R3	R4	R5	R6	R7	Notes
hhid	Household ID	R	R	R	R	R	R	R	
round	Survey round	R	R	R	R	R	R	R	
s81	Crop	-	-	-	-	-	-	P^N	
s82	How many KGs of crop did you harvest from the crop?	-	-	-	-	-	-	P^N	
s83	What is the market price in KSH of 1 KG of the crop	-	-	-	-	-	-	P^N	

6.3.21 Cash, Transfers and Assistance

File: "S9A Cash and In-Kind Transfers.dta"

Unique identifying variables: hhid, round, type, direction, transferid

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
type	Type of transfer: Cash or In-kind	R	R	R	R	R	R	
type_r7	Type of transfer [1]							R
direction	Direction of transfer: Received or Given [2]	R	R	R	R	R	R	R
transferid	Transfer ID [3]	R	R	R	R	R	R	R
transfer_individual_source	Source of transfer	B	B	B	B	B	B	P*
transfer_individual_source_other	Specify source of transfer	B	B	B	B	B	B	-
value_ld	Value of transfer (KSh): long dry season	B	B	B	B	B	B	P
value_lr	Value of transfer (KSh): long rain season	B	B	B	B	B	B	P
value_sd	Value of transfer (KSh): short dry season	B	B	B	B	B	B	P
value_sr	Value of transfer (KSh): short rain season	B	B	B	B	B	B	P

Note. In R2-6, source of transfer (s9q2c) is the same over seasons in each row in the data. On the other hand, in R1, source of transfer (s9q2a, s9q3a, s9q4a, s9q5a) can be different over seasons in each row in the data.

* Implies new option values introduced.

[1] R7 uses a less aggregated set of categories for type

[2] R7 does not collect data on given transfers.

[3] Only used in some rounds

6.3.22 Other Assistance

File: "S9B Other Assistance.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R 5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
s9q6a	Did anyone in your hh receive food aid in the past 12 months	N	B	B	B	B	B	P
s9q6b	Number of months food aid received in past 12 months	N	B	B	B	B	B	P
s9q6c	Average monthly value (KSH) of food aid received	N	B	B	B	B	B	P
s9q7a	Did anyone in your hh receive school feeding in past 12 months	N	B	B	B	B	B	P
s9q7b	Number of months school feeding received in the past 12 months	N	B	B	B	B	B	P
s9q7c	Average monthly value (KSH) of school feeding	N	B	B	B	B	B	P
s9q8a	Did anyone in your hh receive supplementary feeding in the past 12 months	N	B	B	B	B	B	P
s9q8b	Number of months supplementary feeding received in past 12 months	N	B	B	B	B	B	P
s9q8c	Average monthly value (KSH) of supplementary feeding received	N	B	B	B	B	B	P
s9q9	Did anyone in your hh participate in an employment program in last 12 months that gave food or cash for work?	N	B	B	B	B	B	P
s9q10a	1st employment program: Was the activity participated in for food or cash	N	B	B	B	B	B	-
s9q10b	2nd employment program: Was the activity participated in for food or cash	N	B	B	B	B	B	-
s9q10c	3rd employment program: Was the activity participated in for food or cash	N	B	B	B	B	B	-
s9q11a	1st employment program: Which member id code participated in activity	N	B	B	B	B	B	-
s9q11b	2nd employment program: Which member id code participated in activity	N	B	B	B	B	B	-
s9q11c	3rd employment program: Which member id code participated in activity	N	B	B	B	B	B	-
s9q12a	1st employment program: Number of days in the last 12 months hh member participated in activity	N	B	B	B	B	B	P
s9q12b	2nd employment program: Number of days in the last 12 months hh member participated in activity	N	B	B	B	B	B	-
s9q12c	3rd employment program: Number of days in the last 12 months hh member participated in activity	N	B	B	B	B	B	-
s9q13a	1st employment program: Daily rate that the hh member received for the activity	N	B	B	B	B	B	P
s9q13b	2nd employment program: Daily rate that the hh member received for the activity	N	B	B	B	B	B	-
s9q13c	3rd employment program: Daily rate that the hh member received for the activity	N	B	B	B	B	B	-
s9q14a	Did hh receive any (non-livestock) aid/help from Govt in the past 12 months?	N	B	B	B	B	-	-
s9q14b	Total value of aid received from Govt during long dry season (Jun- Sep)? [1]	N	B	B	B	B	-	-
s9q14c	Total value of aid received from Govt during long rain season (Mar-May)? [1]	N	B	B	B	B	-	-
s9q14d	Total value of aid received from Govt during short dry season (Jan- Feb)? [1]	N	B	B	B	B	-	-
s9q14e	Total value of aid received from Govt during short rain season (Oct-Dec)? [1]	N	B	B	B	B	-	-
s9q15a	Did hh receive any (non-livestock) aid/help from NGO in the past 12 months? [1]	N	B	B	B	B	-	-
s9q15b	Total value of aid received from NGO during long dry season (Jun- Sep)? [1]	N	B	B	B	B	-	-
s9q15c	Total value of aid received from NGO during long rain season (Mar-May)? [1]	N	B	B	B	B	-	-
s9q15d	Total value of aid received from NGO during short dry season (Jan- Feb)? [1]	N	B	B	B	B	-	-
s9q15e	Total value of aid received from NGO during short rain season (Oct-Dec)? [1]	N	B	B	B	B	-	-
s9q16_1	Have you heard of HSNP? [2]	-	-	-	-	-	B	-
s9q16_2	After hearing an explanation, do you know what HSNP is now? [3, 4]	-	-	-	-	-	B	-
s9q16a	Did hh receive any (non-livestock) aid/help from HSNP in the past 12 months? [4]	-	-	B	B	B	B	-
s9q16b	Total value of aid received from HSNP during long dry season (Jun-Sep)? [4]	-	-	B	B	B	B	-
s9q16c	Total value of aid received from HSNP during long rain season (Mar-May)? [4]	-	-	B	B	B	B	-

s9q16d	Total value of aid received from HSNP during short dry season (Jan-Feb)? [4]	-	-	B	B	B	B	-
s9q16e	Total value of aid received from HSNP during short rain season (Oct-Dec)? [4]	-	-	B	B	B	B	-
s9q16f1	Did you know that HSNP may increase amount of transfer and number of recipients during severe drought? [4,5]	-	-	-	-	-	B	-
s9q16f2	Would you be willing to accept reduced regular HSNP transfer during non-drought to finance increase during drought time? [4,6]	-	-	-	-	-	B	-
s9q17a	Did hh receive an orphans and vulnerable children transfer in the past 12 months?	-	-	-	-	-	B	P
s9q17b	Total value of the orphans and vulnerable children transfer during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q17c	Total value of the orphans and vulnerable children transfer during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q17d	Total value the orphans and vulnerable children transfer during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q17e	Total value of the orphans and vulnerable children transfer during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q18a	Did hh receive a persons living with HIV transfer in the past 12 months?	-	-	-	-	-	B	P
s9q18b	Total value of the persons living with HIV transfer during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q18c	Total value of the persons living with HIV transfer during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q18d	Total value of the persons living with HIV transfer during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q18e	Total value of the persons living with HIV transfer during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q19a	Did hh receive an older persons transfer in the past 12 months?	-	-	-	-	-	B	P
s9q19b	Total value of the older persons transfer during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q19c	Total value of the older persons transfer during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q19d	Total value of the older persons transfer during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q19e	Total value of the older persons transfer during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q20a	Did hh receive a persons with severe disabilities transfer in the past 12 months?	-	-	-	-	-	B	P
s9q20b	Total value of the persons with severe disabilities transfer during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q20c	Total value of the persons with severe disabilities transfer during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q20d	Total value of the persons with severe disabilities transfer during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q20e	Total value the persons with severe disabilities transfer during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q21a	Did hh receive a transfer from the county fund in the past 12 months?	-	-	-	-	-	B	P
s9q21b	Total value of the transfer from the county fund during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q21c	Total value of the transfer from the county fund during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q21d	Total value of the transfer from the county fund during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q21e	Total value of the transfer from the county fund during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q22a	Did hh receive any other aid from the gov't in the past 12 months?	-	-	-	-	-	B	P
s9q22b	Total value of the other aid from the gov't during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q22c	Total value of the other aid from the gov't during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q22d	Total value of the other aid from the gov't during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q22e	Total value of the other aid from the gov't during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q23a	Did hh receive any other aid from NGOs in the past 12 months?	-	-	-	-	-	B	P
s9q23b	Total value of the other aid from NGOs during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q23c	Total value of the other aid from NGOs during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q23d	Total value of the other aid from NGOs during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q23e	Total value of the other aid from NGOs during short rain season (Oct-Dec)?	-	-	-	-	-	B	P
s9q24a	Did hh receive an emergency fund transfer in the past 12 months?	-	-	-	-	-	B	P
s9q24b	Total value of the emergency fund transfer during long dry season (Jun-Sep)?	-	-	-	-	-	B	P
s9q24c	Total value of the emergency fund transfer during long rain season (Mar-May)?	-	-	-	-	-	B	P
s9q24d	Total value of the emergency fund transfer during short dry season (Jan-Feb)?	-	-	-	-	-	B	P
s9q24e	Total value of the emergency fund transfer during short rain season (Oct-Dec)?	-	-	-	-	-	B	P

Note. Starting in R3, questions s9q16a - s9q16e were added asking for cash transfer from HSNP in particular due to the critical nature of that program. In previous rounds (R1-2), it is contained

in s9q15a - s9q15e. Questions about other government and non-government transfer programs were added in R6. In previous rounds (R3-5), this information is contained in s9q14a - s9q15e.

[1] Disaggregated into s9q17-q24 in R6 and R7

[2] The exact sentence of question is as follows: Have you heard of Hunger Safety Net Progamme (HSNP), a cash transfer implemented by National Drought Management Authority (NDMA)? The transfer is made through Equity Bank. Before NDMA, it was implemented by CARE. It is called "pesa ya kompyuta" "pesa ya ATM" or "pesa ya CARE" as well.

[3] If s9q16_1 was no, interviewer explained HSNP as follows and then asked s9q16_2: Hunger Safety Net Programme (HSNP) is cash transfer programme to help pastoralists in Marsabit. It was implemented by CAREsince 2009. It is called "pesa ya kompyuta" "pesa ya ATM" or "pesa ya CARE". Since 2013, it is implemented by National Drought Management Authority (NDMA) under Ministry of Planning and Devolution. The transfer is made through Equity Bank. It has been providing cash transfer of a few thousands every 2 months to selected households in Marsabit. HSNP is one of the five cash transfers under National Safety Net Programme (NSNP). The other four transfers are 1. Orphans & Vulnerable Children Cash Transfer (CT); 2. Urban Food Subsidy CT; 3. Older Persons CT; 4. Persons with Severe Disability CT. These 4 are implemented by Ministry of Labour, Social Security and Services. Note that County Fund is a similar cash transfer program by Marsabit County government and using the same NSNP Equity card for its transfer.

[4] Disaggregated into s9q17-q24 in R7.

[5] The exact sentence of question is as follows: HSNP has been providing cash transfer of a few thousands every 2 months to particular households in Marsabit. This amount is constant regardless of the drought conditions. Are you aware that in future, HSNP MAY increase the amount of cash transfer and number of recipients during severe drought conditions?

[6] The exact sentence of question is as follows: If HSNP were to increase the amount of cash one receives during severe drought periods, would you be willing to accept a reduced amount of the regular cash transfer received during the non-drought periods you receive to finance increased amount during drought period?

6.3.23 Herd Migration and Satellite Camp

File: "S10 Herd Migration and Satellite Camps.dta" Unique identifying variables: hhid, round, campid

Variable	Description	R1	R2	R3	R4	R 5	R 6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
campid	Satellite camp ID	R	R	R	R	R	R	-
s10q1	What is area name where you set your satellite camp?	B	B	B	B	B	B	-
s10q1b	If other, specify the area name.	B	B	B	B	B	B	-
s10q2a	How many days would it take to walk from here to [area]?	B	B	B	B	B	B	-
s10q2b	How many hours would it take to walk from here to [area]?	-	B	B	B	B	B	-
s10q3	What month did your herd start staying in satellite camp in this area?	B	B	B	B	B	B	-
s10q4	What month did your herd finish staying in satellite camp in this area?	B	B	B	B	B	B	-
s10q5	Do you regularly use this area for satellite camp in this given period time of year?	B	B	B	B	B	B	-
s10q6	If not, why did you choose this area for satellite camp in this period of last year?	B	B	B	B	B	B	-
s10q6b	If other, specify the reason.	B	B	B	B	B	B	-

6.3.24 Consumption and Expenditure

File: "S11A Weekly Food Consumption Expenditures.dta" Unique identifying variables: hhid, round, foodclass, foodtype

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	-	-
round	Survey round ID	R	R	R	R	R	-	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	-	-
foodclass	Food class ID	R	R	R	R	R	-	-
foodtype	Food type ID	R	R	R	R	R	-	-
s11q2	Has household consumed in last 7 days	N	B	B	B	B	-	-
s11q3	Quantity consumed in last 7 days	N	B	B	B	B	-	-
s11q4a	Unit for quantity consumed in last 7 days	N	B	B	B	B	-	-
s11q4b	Unit for quantity consumed in last 7 days (other specify)	N	B	B	B	B	-	-
s11q5	Total value of food type (KSH)	N	B	-	-	-	-	-
s11q5a	Per unit value of food type (KSH)	-	-	B	B	B	-	-
s11q6a	Primary means to acquire this food type	N	B	B	B	B	-	-
s11q6b	Secondary means to acquire this food type	N	B	B	B	B	-	

Note: In R6, a far modified version of this section was administered and is included in section 11A2 instead. Total food consumption aggregates can only be made for R1-R5.

6.3.25 Weekly Food Consumption Frequency

File: "S11A2 Weekly Food Consumption Frequency.dta" Unique identifying variables: hhid, round, foodclass, foodtype

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	-	-	R	-
round	Survey round ID	-	-	-	-	-	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	-	-	-	R	-
foodclass	Food class ID	-	-	-	-	-	R	-
foodtype	Food type ID	-	-	-	-	-	R	-
s11q2	Has household consumed in last 7 days	-	-	-	-	-	B	-
s11q6a	Primary means to acquire this food type	-	-	-	-	-	B	-
s11q7	Number of days eaten out of household in last 7 days	-	-	-	-	-	B	-

Note: Many of the "foodtype" categories used in R6 were aggregated from the ones used in R1-R5.

6.3.26 Daily Food Consumption Frequency

File: "S11A3 Daily Food Consumption Frequency.dta" Unique identifying variables: hhid, round, foodclass

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round ID	-	-	-	-	-	-	R
foodclassR7	Food class ID in R7	-	-	-	-	-	-	R
s11q2c	Has household consumed in last 24 hours	-	-	-	-	-	-	B
s11q2d	Have children consumed in last 24 hours	-	-	-	-	-	-	B

Note: "foodclassR7" categories used in S11A3 in R7 were different from "foodclass" categories used in S11A1 in R1-5 and S11A2 in R6.

6.3.27 Other Non-Food Consumption Expenditures

File: "S11B Other Non-Food Consumption Expenditures.dta" Unique identifying variables: hhid, round, itemtype

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	-	-
round	Survey round	R	R	R	R	R	-	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	-	-
itemtype	Non-food item ID	R	R	R	R	R	-	-
interval	Time interval over which total value represents	R	R	R	R	R	-	-
s11q8	Total value of item over interval (KSH)	N	B	B	B	B	-	-

Note: This section was not included in the R6 questionnaire.

6.3.28 Livestock Expenditures

File: "S11C Livestock Expenditures.dta"

Unique identifying variables: hhid, round, itemtype

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
itemtype	Livestock expenditure ID	R	R	R	R	R	R	R
itemtype_os	Livestock expenditure (other specify)	N	B	B	B	B	B	-
s11q11	Total annual expenditure on livestock item (KSH)	N	B	B	B	B	B	B

6.3.29 Housing and Aminities

File: "S12 Housing and Amenities.dta" Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R7
hhid	Household ID	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	-
s12q14	Have your housing amenities improved, remained the same or worsened compared to 2 years ago	-	-	B	B	B	-
s12q15	Have your housing amenities improved, remained the same or worsened	-	-	-	N	N	-
s12q1	what are the walls of main dwelling predominantly made of	N	N	B	B	B	-
s12q1b	what are the walls of main dwelling predominantly made of specified	N	N	B	B	B	-
s12q2	main flooring material	N	N	B	B	B	-
s12q2b	main flooring material specify	N	N	B	B	B	-
s12q3	number of rooms	N	N	B	B	B	-
s12q4	main cooking appliance	N	N	B	B	B	-
s12q5	cooking fuel	N	N	B	B	B	-
s12q6	source of lighting	N	N	B	B	B	-
s12q6b	source of lighting specified	N	N	B	B	B	-
s12q7	does the household have toilet facility yes or no	N	N	B	B	B	-
s12q8	type of toilet facility for household	N	N	B	B	B	-
s12q9	main source of drinking water currently	N	N	B	B	B	-
s12q9b	main source of drinking water currently specify	N	N	B	B	B	-
s12q10a	time it takes to walk to the drinking water and back in hours	N	N	B	B	B	-
s12q10b	time it takes to walk to the drinking water and back in minutes	N	N	B	B	B	-
s12q11	does household have to pay to access water (yes/no)	N	N	B	B	B	-
s12q12	main source of drinking water in the previous 2 years	N	N	B	B	B	-
s12q12b	main source of drinking water in the previous 2 years specified	N	N	B	B	B	-
s12q13	is main water source for animals the same as main drinking water source	N	N	B	B	B	-

Note. Question s12q14 included in R3, R4 and R5 survey while s12q15 was asked for R4 and R5. If the respondent indicated that the amenities remained the same, s12q1 – s12q8 were skipped (were not asked).

6.3.30 Other Livestock

File: "S13A Other Livestock.dta"

Unique identifying variables: hhid, round, animaltype

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
animaltype	animal type	R	R	R	R	R	R	-
s13q1	Number of animals owned	N	B	B	B	B	B	-
s13q2	Number of animals reared	N	B	B	B	B	B	-

6.3.31 Land Owned and Farmed

File: "S13B Land Owned and Farmed.dta" Unique identifying variables: hhid, round

Variable	Description	R 1	R 2	R 3	R 4	R 5	R 6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
s13q3	Does the household own or farm any agricultural land?	N	B	B	B	B	B	-
s13q4	Has the household ever owned or farm any agricultural land?	N	N	N	N	N	N	-
s13q5a	Total irrigated land owned	N	B	B	B	B	B	-
s13q5b	Units for irrigated land owned	N	B	B	B	B	B	-
s13q5c	Total non-irrigated land owned	N	B	B	B	B	B	-
s13q5d	Non-irrigated land unit	N	B	B	B	B	B	-
s13q6a	Total irrigated land currently farmed	N	B	B	B	B	B	-
s13q6b	Units for irrigated land currently farmed	N	B	B	B	B	B	-
s13q6c	Total non-irrigated land currently farmed	N	B	B	B	B	B	-
s13q6d	Units for non-irrigated land currently farmed	N	B	B	B	B	B	-
s13q7a	Total irrigated land farmed in 2008 (for R1-4) or 2009 (for R5)	N	N	N	N	N	-	-
s13q7b	Units for irrigated land farmed in 2008 (for R1-4) or 2009 (for R5)	N	N	N	N	N	-	-
s13q7c	Total non-irrigated land farmed in 2008 (for R1-4) or 2009 (for R5)	N	N	N	N	N	-	-
s13q7d	Units for non-irrigated land farmed in 2008 (for R1-4) or 2009 (for R5)	N	N	N	N	N	-	-
s13q8a	Total irrigated land farmed in 2007 (for R1-4) or 2008 (for R5)	N	N	N	N	N	-	-
s13q8b	Units of irrigated land farmed 2007 (for R1-4) or 2008 (for R5)	N	N	N	N	N	-	-
s13q8c	Total non-irrigated land farmed in 2007 (for R1-4) or 2008 (for R5)	N	N	N	N	N	-	-
s13q8d	Units for non-irrigated land farmed in 2007 (for R1-4) or 2008 (for R5)	N	N	N	N	N	-	-

Notes: In R5, with s13q7a-d and s13q8a-d, we unintentionally/wrongly asked farming in 2009 and 2008 instead of 2008 and 2007 as we did in R1-4. 1 sanga is a plot which a person can plow with 1 pair of ox from 6 AM to 2 PM, which is equivalent to around 1 acre or 5 bois. 1 boi is a plot of 35 steps time 70 steps.

6.3.32 Other Assets

File: "S13C Other Assets.dta"

Unique identifying variables[1]: hhid, round, AssetID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
AssetID	Asset ID	R	R	R	R	R	R	-
Asset_Type	Asset Type	R	R	R	R	R	R	-
Asset_Desc	Asset name	R	R	R	R	R	R	-
s13q9	Do you own [Asset_Desc]?	-	N	N	N	N	N	-
s13q9b	If other, specify the asset.	N	N	N	N	N	N	-
s13q10	How many [Asset_Desc]s do you own?	N	N	N	N	N	N	-
s13q11	How much per unit if you would sell?	N	N	N	N	N	-	-
s13q12	Did you buy, receive, sell, or give away [Asset_Desc] between October previous year and September current year?	-	P	P	P	P	P	-
s13q12_r6	Did you buy, receive, sell, or give away [Asset_Desc] between October 2013 and September current year (2015)?	-	-	-	-	-	P	-
s13q12b	If other, specify the asset.	-	P	P	P	P	P	-
s13q13	How many [Asset_Desc]s did you buy or receive?	-	P	P	P	P	P	-
s13q14	How much in monetary value (kshs) was the change (buy or receive) equivalent to?	-	P	P	P	P	-	-
s13q15	How many [Asset_Desc]s did you sell or give away?	-	P	P	P	P	P	-
s13q16	How much in monetary value (kshs) was the change (sell or give away) equivalent to?	-	P	P	P	P	-	-

[1] In R1, hhid, round, AssetID, s13q9b are uniquely identifying variables except 9 duplications.

6.3.33 Savings, Lending, and Loans

File: "S14A Saving, Lending, Borrowing.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
s14q1	Do you or anyone in this household currently have any cash savings?	-	B	B	B	B	B	P
s14q2	Where do you keep the largest part of your cash savings?	-	B	B	B	B	B	P
s14q2b	If other, specify where.	-	-	B	B	B	B	P
s14q2a	If a formal institution, what is the name?	-	B	B	B	B	B	-
s14q4a	What is the main reason why your household has not kept money in a bank/institution?	-	B	B	B	B	B	-
s14q4b	If other, specify the reason.	-	B	B	B	B	B	P
s14q3	How much savings do you currently have (KSh)?	-	B	B	B	B	B	P
s14q3_a	Was the savings group associated with an NGO or government organization?	-	-	-	-	-	-	P^N
s14q3_b	Which organization supported the lending group?	-	-	-	-	-	-	P^N
s14q5	Do you have cash savings with a CARE savings and lending group?	-	-	-	B	B	-	-
s14q6	If yes, what is the name of the group?	-	-	-	B	B	-	-
s14q6b	If other, specify the name of the group.	-	-	-	B	B	-	-
s14q7	Who is the household member belonging to the CARE saving and lending group?	-	-	-	B	B	-	-
s14q8	Which year did the group start?	-	-	-	B	B	-	-
s14q9	Which year did your household join the group?	-	-	-	B	B	-	-
s14q10	How much savings in Kshs does your household currently have in the group?	-	-	-	B	B	-	-
s14q11	How much is the current total savings of the group in Kshs?	-	-	-	B	B	-	-
s14q51	Have you or anyone in your household lent out any money in the last 12 months?	N	B	B	B	B	B	-
s14q52	If not, why not?	N	B	B	B	B	B	-
s14q52b	If other, specify the reason.	N	B	B	B	B	B	-
s14q24	How many times in the last 3 months?	N	-	-	-	-	-	
s14q25	How much did you lend in total in the last 3 months (KSh)?	N	-	-	-	-	-	
s14q28	How much money ARE YOU OWED CURRENTLY (KSh)?	N	-	-	-	-	-	
s14q53	How many times did you lend out in the last 12 months?	-	B	B	B	B	B	-
s14q54	How much did you lend out in total in the last 12 months? (KSh)	-	B	B	B	B	B	-
s14q83	On the top of the amount above, how much does your borrower have to add when he pays?	-	-	B	B	B	B	-
s14q55	Out of the total amount how much has been paid back?	-	B	B	B	B	B	-
s14q56	For the last loan that you lent (if more than one), to whom did you lend?	N	B	B	B	B	B	-
s14q56b	If other, specify the person.	N	B	B	B	B	B	-
s14q57	What was this last loan for?	N	B	B	B	B	B	-
s14q57b	If other, specify the reason.	N	B	B	B	B	B	-
s14q51a	Have you given out any loans or credit through a BUSINESS to friends, family, other community members or others over the last 30 days?	-	-	-	-	-	-	P^N
s14q51b	To which of the following did you provide loans or credit through a BUSINESS to over the last 30 days	-	-	-	-	-	-	P^N
s14q51c	How much is the total BUSINESS loan/credit from the last 30 days.	-	-	-	-	-	-	P^N
s14q51d	Have you given out any PERSONAL loans or credit to friends, family, other community members or others over the last 30 days?	-	-	-	-	-	-	P^N
s14q51e	To which of the following did you provide PERSONAL loans or credit to over the last 30 days?	-	-	-	-	-	-	P^N
s14q51f	How much is(are) the total PERSONAL loan (s) in the last 30 days?	-	-	-	-	-	-	P^N

Code	Question							
s14q73	Suppose you want to borrow some money, and you have to pay back Ksh 10 for every Ksh 100 that you borrow. This is called interest rate. Are you familiar with this concept?	-	-	B	B	B	B	-
s14q71	Suppose you borrow Ksh 1000, and you have to pay back Ksh 10 every month for every Ksh 100 that you borrow. If you have not repaid any of the total for a period of three months, how much do you owe at the end of the 3 months?	-	-	B	B	B	B	-
s14q72	Suppose you need to borrow Ksh 500. Two people offer you a loan. One requires you to pay back Ksh 600 in a month. The second requires you to pay back Ksh 500 plus Ksh 15 for every Ksh 100 you borrow that month. Which loan represents a better deal for you?	-	-	B	B	B	B	-
s14q18a	Credit perception: Please tell me about your main source of loans, and your opinion on the difficulty of getting them for each of the following purposes: If a small amount of money (less than 10,000 KShs) is needed for seasonal agricultural (crop/livestock) inputs or other small investments: Main loan source	N	B	B	-	-	-	-
s14q18a2	If other, specify the main source.	N	B	B	-	-	-	-
s14q18b	Difficulty of getting it	N	B	B	-	-	-	-
s14q19a	If a large amount of money (more than 10,000 KShs) is needed for agricultural (e.g. to buy livestock) or non- agricultural investment e.g. for building shops: Main loan source	N	B	B	-	-	-	-
s14q19a2	If other, specify the main source.	N	B	B	-	-	-	-
s14q19b	Difficulty of getting it	N	B	B	-	-	-	-
s14q20a	If money is need for household's REGULAR but MAJOR expenditures e.g. food, school fees or health: Main loan source	N	B	B	-	-	-	-
s14q20a2	If other, specify the main source.	N	B	B	-	-	-	-
s14q20b	Difficulty of getting it	N	B	B	-	-	-	-
s14q21a	If money is needed to cope with livestock losses e.g. for restocking: Main loan source	N	B	B	-	-	-	-
s14q21a2	If other, specify the main source.	N	B	B	-	-	-	-
s14q21b	Difficulty of getting it	N	B	B	-	-	-	-
s14q5_r1	Have you or anyone in your household borrowed any money in the last 12 months?	N	-	-	-	-	-	-
s14q6_r1	If not, why not?	N	-	-	-	-	-	-
s14q6b_r1	If other, specify the reason.	N	-	-	-	-	-	-
s14q7_r1	How many times in the last 12 months?	N	-	-	-	-	-	-
s14q8_r1	How much did you borrow in total in the last 12 months (KSh)?	N	-	-	-	-	-	-
s14q9_r1	For the last loan that you took (if more than one), from whom did you borrow?	N	-	-	-	-	-	-
s14q9b_r1	If other, specify the person.	N	-	-	-	-	-	-
s14q10_r1	What was this last loan for?	N	-	-	-	-	-	-
s14q10b_r1	If other, specify the reason.	N	-	-	-	-	-	-
s14q11_r1	How much money do you currently owe in total (KSh)? (Amount outstanding)	N	-	-	-	-	-	-
s14q12	Have you or anyone in your household bought anything on credit in the last 3 months?	N	-	-	-	-	-	-
s14q13	If not, why not?	N	-	-	-	-	-	-
s14q14	How many times in the past 3 months?	N	-	-	-	-	-	-
s14q15	How much was it worth in total in the past 3 months (KSh)?	N	-	-	-	-	-	-
s14q16	The last time you bought something on credit, what did you buy?	N	-	-	-	-	-	-
s14q17	How much do you currently owe (KSh)?	N	-	-	-	-	-	-
s14q58_r23	Have you or anyone in your household borrowed any money or bought something on credit in the last 12 months?	-	B	B	-	-	-	-
s14q58a_r23	If not, why not?	-	B	B	-	-	-	-
s14q58b_r23	If other, specify the reason.	-	B	B	-	-	-	-
s14q58	Have you or anyone in your household applied to any institution or person for a loan in the last 12 months?	-	-	-	B	B	B	-
s14q58a	If not, why not?	-	-	-	B	B	B	-
s14q58b	If other, specify the reason.	-	-	-	B	B	B	-
s14q59	Have you or anyone in your household bought something on credit in the last 12 months?	-	-	-	B	B	B	-
s14q59b	If not, why not?	-	-	-	B	B	B	-

Code	Description							
s14q59c	If other, specify the reason.	-	-	-	-	B	B	-
s14q5_r7	Have you borrowed money from a friend or family member in the last 30 days?	-	-	-	-	-	-	P^N
s14q8_r7	Amount borrowed in the last 30 days:	-	-	-	-	-	-	P^N
s14q59_r7	Have you purchased food or goods on credit from a kiosk in the last 30 days?	-	-	-	-	-	-	P^N
debt_4	Amount of purchased food or goods on credit in the last 30 days	-	-	-	-	-	-	P^N
debt_5	Have you taken out a loan from a savings group or merry go round in the last 30 days?	-	-	-	-	-	-	P^N
debt_6	Amount taken out as a loan from a savings group or merry go round in the last 30 days	-	-	-	-	-	-	P^N
debt_5_support_yn	Was the savings group associated with an NGO or government organization?	-	-	-	-	-	-	P^N
debt_5_support_who	Which organization supported the lending group?	-	-	-	-	-	-	P^N
debt_7	Have you taken out a loan from a Bank or Micro Financial Institution in the last 30 days?	-	-	-	-	-	-	P^N
debt_8	Amount taken out a loan from a Bank or Micro Financial Institution in the last 30 days?	-	-	-	-	-	-	P^N
debt_9	Have you taken out a loan from anyone else or any other institution (e.g., clinic, hospital, school, NGO) over the last 30 day s?	-	-	-	-	-	-	P^N
debt_10	Amount taken out as a loan from anyone else or any other institution (e.g., clinic, hospital, school, NGO) over the last 30 days?	-	-	-	-	-	-	P^N

Note: ^{N} in R7 represents a new question.

6.3.34 Apply for Loans

File: "S14B Apply for Loans.dta"

Unique identifying variables: hhid, round, LSID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	R	R	R	R	-
round	Survey round	-	-	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
LSID	Loan source	-	-	B	B	B	B	-
LSID_other	Other source specified	-	-	-	-	-	B	-
s14q74	Have you applied or asked for loan from this source in the past 12 months?	-	-	B	B	B	B	-
s14q70_r6	What was the major purpose of applying for loans from this source	-	-	-	-	-	B	-
s14q70b_r6	Other purpose specified	-	-	-	-	-	B	-
s14q74a	Did you receive part or all the loan that you applied for?	-	-	-	-	-	B	-
s14q66_r6	What was the total amount of money borrowed(in Kshs)	-	-	-	-	-	B	-
s14q66a_r6	Is this amount less than what you applied for	-	-	-	-	-	B	-
s14q66b_r6	What is the total amount of money you are supposed to pay back (principle +Interest)	-	-	-	-	-	B	-
s14q78	Why have you not applied for loan from this source in the last 12 months?	-	-	B	B	B	-	-
s14q78b	If other, specify the reason.	-	-	-	B	B	-	-
s14q75	How many times have you applied or asked for loan from this source in the last 12 months?	-	-	B	B	B	-	-
s14q76	How many times have your applications been approved for loan from this source (and so you successfully access to loan from this source)in the last 12 months?	-	-	B	B	B	-	-
s14q77	Would you have wanted one more loan from this source? If so, why have you NOT gotten one more loan from this source?	-	-	B	B	B	-	-

Note: s14q70_r6, s14q70b_r6, s14q66_r6, s14q66b_r6 in R6 in this subsection are very similar to s14q79, s14q70b, s14q66, s14q66_r23 in R1-5 in S14C Loan Portfolio below.

6.3.35 Loan Portfolio

File: "S14C Loan Portfolio.dta"

Unique identifying variables: hhid, round, Loan_ID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	R	R	R	R	-	-
round	Survey round	-	R	R	R	R	-	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	-	-
Loan_ID	Loan ID	-	B	B	R	R	-	-
s14q60a	Loan or goods bought on credit?	-	-	B	-	-	-	-
s14q60	Source of loan	-	B	B	B	B	-	-
s14q60b	Source of loan specified	-	B	B	-	-	-	-
s14q61	Good bought on credit	-	B	B	-	-	-	-
s14q61b	goods bought on credit specified	-	-	B	-	-	-	-
s14q61c	Have your household bought [good] on credit between Oct previous year and Sep current year?	-	B	-	-	-	-	-
s14q79	Did you take similar loan (e.g. with similar amount and terms) periodically in the last 12 months?	-	-	B	-	-	-	-
s14q81	If yes, how often did you borrow between Oct previous year and Sep current year?	-	-	B	-	-	-	-
s14q81b	If other, specify how often.	-	-	B	-	-	-	-
s14q82	If yes, what was the first month you borrowed between Oct previous year and Sep current year?	-	-	B	-	-	-	-
s14q62	If no, when did you borrow between Oct previous year and Sep current year?	-	-	B	-	-	-	-
s14q62_r2	What month did you borrow between Oct previous year and Sep current year?	B	-	-	-	-	-	-
s14q66	Total Amount of loan in Kshs	-	B	B	B	B	-	-
s14q65c	How much on top of the loan are you expected to pay?	-	-	B	B	B	-	-
s14q66a	This implies that the total amount of money (KSh) that you are expected to return for the loan amount + total interest charged is Ksh [s14q66+s14q65c]. Is this correct?	-	-	-	B	B	-	-
s14q66_r23	What is the total amount of money (KSh) that you are expected to return for this loan? (loan amount + total interest charged. If the repayment is a good, monetary value of the good.)	-	B	B	-	-	-	-
s14q64	Is (was) there a specific date by which you are (were) expected to return this loan?	-	B	B	B	B	-	-
s14q65a	Month you were expected to return this loan	-	B	B	B	B	-	-
s14q65b	Year you were expected to return this loan	-	B	B	B	B	-	-
s14q67	Did you know the interest rate of this loan?	-	B	-	-	-	-	-
s14q68a	What was the interest rate of this loan per month?	-	B	-	-	-	-	-
s14q68b	What was the interest rate of this loan per year?	-	B	-	-	-	-	-
s14q69	How much money do you currently owe on this particular loan (Kshs)?	-	B	B	B	B	-	-
s14q70	What was this loan used for?	-	B	B	B	B	-	-
s14q70b	If other, specify the reason.	-	B	-	B	-	-	-
s14q80	Suppose that this institution ([s14q60]) is willing to lend you more at the current interest rate, Do you want to borrow more?	-	-	B	B	B	-	-
s14q91	Have you been late in repaying this loan in the last 12 months?	-	-	-	B	B	-	-
s14q92	Main reason for being late with payment	-	-	-	B	B	-	-
s14q92b	If other, specify the reason.	-	-	-	B	B	-	-
s14q93	Have you defaulted on this loan in the last 12 months?	-	-	-	B	B	-	-
s14q94	Main reason for defaulting the loan	-	-	-	B	B	-	-

Note: Variables on goods on credit in R4-6 are in "S14D Goods on Credit.dta".

6.3.36 Goods on Credit

File: "S14D Goods on Credit.dta"

Unique identifying variables: hhid, round, Goods_ID, Goods_ID_r6

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	R	R	R	-
round	Survey round	-	-	-	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	-	R	R	R	-
Goods_ID	Goods ID	-	-	-	B	B	-	-
goodtype	Good bought on credit	-	-	-	B	B	-	-
Goods_ID_r6	Goods ID and type	-	-	-	-	-	R	-
s14q61	Did you buy this good on credit?	-	-	-	-	-	B	-
s14q61b	If other, specify the good.	-	-	-	B	-	B	-
goodsource	Source of goods on credit	-	-	-	B	B	B	-
s14q63a	Total amount of goods on credit in (KSh).	-	-	-	B	B	B	-
s14q63b	Total amount of money expected to pay in Ksh (credit amount +interest)	-	-	-	B	B	B	-
s14q81_r6	How often did you borrow between October previous year and September current year?	-	-	-	-	-	B	-
s14q79	Did you take similar goods on credit (e.g., with similar amount and terms) periodically in the past 12 months?	-	-	-	B	B	B	-
s14q81	If yes, How often did you borrow between October previous year and September current year?	-	-	-	B	B	-	-
s14q81b	If other, specify how often.	-	-	-	B	B	-	-
s14q82	If yes, what was the first month you borrowed between October previous year and September current year?	-	-	-	B	B	-	-
s14q82b	If no, when did you between October previous year and September current year?	-	-	-	B	B	-	-

Note: Variables on goods on credit in R2-3 are in "S14C Loan Portfolio.dta".

6.3.37 Network Groups, Index Based Livestock Insurance (IBLI), and Hunger Safety Net Program (HSNP)

File: "S15A Groups, IBLI, HSNP.dta" Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	R
round	Survey round	R	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
s15q1	Does any household member read English?	N	-	-	-	-	-	-
s15q2	Does any household member read Swahili?	N	-	-	-	-	-	-
s15q3	How often does this household use a cell phone?	N	B	B	B	B	B	-
s15q4	What is your familiarity with Equity Bank?	N	B	B	-	-	-	-
s15q5a	Do any of your household members participate in self-help groups?	N	B	B	B	B	B	-
s15q5b	Do any of your household members participate in women's groups?	N	B	B	B	B	B	-
s15q5c	Do any of your household members participate in youth groups?	N	B	B	B	B	B	-
s15q5d	Do any of your household members participate in groups related to water point?	N	B	B	B	B	B	-
s15q5e	Do any of your household members participate in groups related to pasture?	N	B	B	B	B	B	-
s15q5f	Do any of your household members participate in groups related to livestock business?	N	B	B	B	B	B	-
s15q5g	Do any of your household members participate in merry-go-rounds?	N	B	B	B	B	B	-
s15q5h	Do any of your household members participate in other (specify) groups?	N	B	B	B	B	B	-
s15q5h2	Other (specify) for s15q5h	N	B	B	B	B	B	-
s15q5i	Do any of your household members participate in CARE-Cosalo/GSL groups?	-	-	-	B	B	B	-
s15q5_a1	In the past 12 months, did you attend a village meeting?	-	-	-	-	-	-	P^N
s15q5_a2	Are you a member of a group (e.g., a savings group, a cooperative, self-help group, or group related to water or pasture)?	-	-	-	-	-	-	P^N
s15q5_a3	How many groups?	-	-	-	-	-	-	P^N
s15q5_a4	Are you the leader in any of these groups?	-	-	-	-	-	-	P^N
s15q5_a5	Do the members of your group(s) participate in any collective activities besides the regular meetings?	-	-	-	-	-	-	P^N
s15q5_a601	Assist each other with firewood or water collection	-	-	-	-	-	-	P^N
s15q5_a602	Assist each other or hire each other for herding activities	-	-	-	-	-	-	P^N
s15q5_a603	Hire labor collectively	-	-	-	-	-	-	P^N
s15q5_a604	Collectively purchase agricultural or livestock inputs (e.g., fertilizer, vaccinations)	-	-	-	-	-	-	P^N
s15q5_a605	Collectively purchase business inputs and/or stock	-	-	-	-	-	-	P^N
s15q5_a606	Collectively purchase, negotiate for or hire transportation for goods, animals, or individuals	-	-	-	-	-	-	P^N
s15q5_a607	Raise funds for the group through a business activity, such as collectively selling goods	-	-	-	-	-	-	P^N
s15q5_a608	Raise funds for the group through a social activity, such as hosting a dance or sport event	-	-	-	-	-	-	P^N
s15q5_a609	Contribute to the sanitation of the village, such as cleaning main areas or building a latrine	-	-	-	-	-	-	P^N
s15q5_a610	Assist with bringing new services to the village, such as teachers or health care workers	-	-	-	-	-	-	P^N
s15q5_a611	Help those in need	-	-	-	-	-	-	P^N
s15q5_a697	Other (specify)	-	-	-	-	-	-	P^N
s15q5_a7	Activity specified	-	-	-	-	-	-	P^N
s15q10	Have you ever heard about the Hunger Safety Net Programme (HSNP), the cash transfer run by CARE? [1]	N	B	B	B	-	-	-
s15q11	If yes, how did your household find out about the program?	N	B	B	B	-	-	-
s15q11b	Other (specify) for s15q11	N	B	B	-	-	-	-
s15q12	Are you or anyone in your household a recipient of the program?	N	B	B	B	-	-	-
s15q13	How much does your household currently receive per transfer (KSH)?	N	B	-	B	-	-	-
s15q14	How many months on average are the interval between one transfer and the next transfer?	N	B	-	B	-	-	-

Code	Description							
s15q6	Have you ever heard about livestock insurance? [2]	N	-	-	-	-	-	-
s15q7	How did you find out about livestock insurance?	N	-	-	-	-	-	-
s15q7b	If other, specify how.	N	-	-	-	-	-	-
s15q8	If an insurance company offers livestock insurance in your area using Equity bank's facility, would you purchase Livestock Insurance?	N	-	-	-	-	-	-
s15q9	If not, why not?	N	-	-	-	-	-	-
s15q9b	If other, specify why not.	N	-	-	-	-	-	-
s15q15	Have you ever heard of any livestock insurance product being sold in this area?	-	B	B	B	B	B	-
s15q15a	Did you hear about from neighbors, friends, and relatives in informal conversation?	-	B	B	B	B	B	-
s15q15b	Did you hear about from chiefs or other government officials who live in the location?	-	B	B	B	B	B	-
s15q15c	Did you hear about at a barazza?	-	B	B	B	-	B	-
s15q15d	Did you hear about from survey conducted by ILRI?	-	B	B	-	-	-	-
s15q15e	Did you hear about from insurance game conducted by ILRI?	-	B	B	-	-	-	-
s15q15f	Did you hear about from an NGO staff?	-	B	B	B	B	B	-
s15q15g	Did you hear about from VIP (Village Insurance Promoter)?	-	B	B	B	B	B	-
s15q15h	Did you hear about from Equity Bank / APA Insurance staff (excluding VIP)?	-	B	B	B	B	-	-
s15q15i	Did you hear about from network groups?	-	B	B	B	B	-	-
s15q15j	Did you hear about from other (specify)?	-	B	B	B	B	-	-
s15q15j2	Other (specify) for s15q15j	-	B	B	-	B	B	-
s15q15k	Did you hear about on the radio?	-	-	B	B	B	B	-
s15q15l	Did you hear about from a video about IBLI?	-	-	B	-	-	-	-
s15q15m	Did you hear about from CARE saving and lending group (Cosalo/GSL)?	-	-	-	B	B	-	-
s15q15n	Did you hear about from Community Based Trainers (Care CBT)?	-	-	-	B	B	-	-
s15q15o	Did you hear about from ILRI Researchers?	-	-	-	B	B	-	-
s15q15p	Did you hear about from an APA super agent?	-	-	-	-	-	B	-
s15q15q	Did you hear about from a Solidarites International staff member?	-	-	-	-	-	B	-
s15q15r	Did you hear about from a Takaful Insurance lead agent?	-	-	-	-	-	B	-
s15q15s	Did you hear about from a Takaful Insurance sub-agent?	-	-	-	-	-	B	-
s15q15t	Did you hear about from an insurance agent (not sure if it was APA or Takaful affiliated)?	-	-	-	-	-	B	-
s15q15u	Did you hear about from a livestock extension agent in the county government?	-	-	-	-	-	B	-
s15q16	What was the most important source of information regarding livestock insurance?	-	B	B	B	B	B	-
s15q17a	Did you receive a discount coupon that reduced the price of insurance in Jan/Feb (current year)?	-	B	B	-	B	-	-
s15q17b	What percent reduction in the price of insurance did the coupon offer in Jan/Feb (current year)?	-	B	B	-	B	-	-
s15q17c	Did you receive a discount coupon that reduced the price of insurance in Aug/Sept (current year)?	-	-	B	-	B	-	-
s15q17d	What percent reduction in the price of insurance did the coupon offer in Aug/Sept (current year)?	-	-	B	-	B	-	-
s15q18a	Have you ever purchased livestock insurance?	-	-	-	-	B	-	-
s15q18b	How many times have you purchased livestock insurance?	-	-	-	-	B	B	-
s15q18b1	Did you purchase livestock insurance for Jan/Feb (two years ago)?	-	-	-	-	-	B	-
s15q18b2	Did you purchase livestock insurance for Aug/Sept (two years ago)?	-	-	-	-	-	B	-
s15q18c	Did you purchase livestock insurance for Jan/Feb (current year)?	-	B	B	-	B	B	-
s15q18c1	If livestock insurance was offered Jan/Feb (current year), would you have bought it?	-	-	-	B	-	-	-
s15q18d	Did you purchase livestock insurance for Aug/Sept (current year)?	-	-	B	B	B	B	-
s15q18e	If purchased livestock insurance once but not again, why not again?	-	-	-	-	B	B	-
s15q18e2	Other (specify) for s15q18e	-	-	-	-	B	B	-
s15q19a	1st most important reason why no household member purchased livestock insurance in last year	-	B	B	B	B	B	-

Code	Description							
s15q19a2	Other (specify) for s15q19a	-	B	B	B	B	B	-
s15q19b	2nd most important reason why no household member purchased livestock insurance in last year	-	B	B	B	B	-	-
s15q19b2	Other (specify) for s15q19b	-	B	B	B	B	-	-
s15q19c	3rd most important reason why no household member purchased livestock insurance in last year	-	B	B	B	B	-	-
s15q19c2	Other (specify) for s15q19c	-	B	B	B	B	-	-
s15q20b	Did you receive an indemnity payout in March (previous year)?	-	-	-	-	-	B	-
s15q20	Did you receive an indemnity payout in October (previous year)?	-	-	-	B	-	B	-
s15q20a	If yes, how much did you receive (KSH)?	-	-	-	B	-	-	-
s15q21	Did you receive an indemnity payout in March (current year)?	-	-	-	B	B	B	-
s15q21a	If yes, how much did you receive (KSH)?	-	-	-	B	B	B	-
s15q21b	Did you receive an indemnity payout in August (current year)?	-	-	-	-	-	B	-
s15q21c	If yes, how much did you receive (KSH)?	-	-	-	-	-	B	-
insurance_perspective	Before asking questions about the livestock insurance programs in this area, we would like to know your perception on insurance more generally. Do you think that insurance can be helpful?	-	-	-	-	-	-	P^N
klip_aware	Are you aware that the Kenya government started implementing the Kenya Livestock Insurance Program (KLIP)p; by paying premium on behalf of some targeted pastoralists in Marsabit County in 2016 and has continued to do so?	-	-	-	-	-	-	P^N
klip_yn	Are you or is a household member a beneficiary of government's livestock insurance also known as KLIP?	-	-	-	-	-	-	P^N
klip_beneficiary	Who is the beneficiary?	-	-	-	-	-	-	P^N
klip_payout	How many payouts has the beneficiary received from KLIP?	-	-	-	-	-	-	P^N
klip_payouts_change_coping_yn	Did you know that KLIP payments were coming before they came?	-	-	-	-	-	-	P^N
ibli_aware	Are you aware that insurance companies are selling livestock insurance to pastoralists in Marsabit County?	-	-	-	-	-	-	P^N
s15q18b_r7	How many times has someone in your household purchased livestock insurance?	-	-	-	-	-	-	P
s15q18f1	When did you or your household member purchase the livestock insurance? Jan/Feb 2010	-	-	-	-	-	-	P
s15q18f2	Aug/Sept 2010	-	-	-	-	-	-	P
s15q18f3	Jan/Feb 2011	-	-	-	-	-	-	P
s15q18f4	Aug/Sept 2011	-	-	-	-	-	-	P
s15q18f5	Jan/Feb 2012	-	-	-	-	-	-	P
s15q18f6	Aug/Sept 2012	-	-	-	-	-	-	P
s15q18f7	Jan/Feb 2013	-	-	-	-	-	-	P
s15q18f8	Aug/Sept 2013	-	-	-	-	-	-	P
s15q18f9	Jan/Feb 2014	-	-	-	-	-	-	P
s15q18f10	Aug/Sept 2014	-	-	-	-	-	-	P
s15q18f11	Jan/Feb 2015	-	-	-	-	-	-	P
s15q18f12	Aug/Sept 2015	-	-	-	-	-	-	P
s15q18f13	Jan/Feb 2016	-	-	-	-	-	-	P
s15q18f14	Aug/Sept 2016	-	-	-	-	-	-	P
s15q18f15	Jan/Feb 2017	-	-	-	-	-	-	P
s15q18f16	Aug/Sept 2017	-	-	-	-	-	-	P
s15q18f17	Jan/Feb 2018	-	-	-	-	-	-	P
s15q18f18	Aug/Sept 2018	-	-	-	-	-	-	P
s15q18f19	Jan/Feb 2019	-	-	-	-	-	-	P
s15q18f20	Aug/Sept 2019	-	-	-	-	-	-	P
s15q18f21	Jan/Feb 2020	-	-	-	-	-	-	P
s15q18f22	Aug/Sept 2020	-	-	-	-	-	-	P

Variable	Question							
s15q18f98	I don't know	-	-	-	-	-	-	P
ibli_payout_yn	Has your household ever received a payout from the livestock insurance that it purchased?	-	-	-	-	-	-	P
ibli_payout_when_1	When did you or a household member receive a payout from livestock insurance? Short rainy months 2010: Oct, Nov, Dec	-	-	-	-	-	-	P
ibli_payout_when_2	Short dry months 2011: Jan,Feb. Omit from ibli_payout_when_3 to ibli_payout_when_37.	-	-	-	-	-	-	P
ibli_payout_when_38	Short dry months 2020: Jan.,Feb.	-	-	-	-	-	-	P
ibli_payout_when_99	I do not know	-	-	-	-	-	-	P
ibli_payouts_change_coping_yn	Did you know that ibli was going to make payments before your recieved the payout?	-	-	-	-	-	-	P
ibli_nopurch_why	Why haven't you purchased livestock insurance before?	-	-	-	-	-	-	P
s15q19a_1	Why haven't you purchased livestock insurance before? Unaware/Have not heard that insurance was available	-	-	-	-	-	-	P^N
s15q19a_2	Did not know who the agent was or could not find them	-	-	-	-	-	-	P^N
s15q19a_3	Too expensive/could not afford	-	-	-	-	-	-	P^N
s15q19a_4	Had coverage from KLI	-	-	-	-	-	-	P^N
s15q19a_5	Did not want product/product not good for me	-	-	-	-	-	-	P^N
s15q19a_6	Did not want product/product not good generally	-	-	-	-	-	-	P^N
s15q19a_7	Did not understand insurance well enough	-	-	-	-	-	-	P^N
s15q19a_8	Did not trust the insurance agent or company	-	-	-	-	-	-	P^N
s15q19a_9	Did not understand coupon	-	-	-	-	-	-	P^N
s15q19a_10	Cost is too high	-	-	-	-	-	-	P^N
s15q19a_11	Too busy	-	-	-	-	-	-	P^N
s15q19a_12	Discouraged by someone in the community/family	-	-	-	-	-	-	P^N
s15q19a_13	Little/No risk of drought this year	-	-	-	-	-	-	P^N
s15q19a_14	Did not have enough animals	-	-	-	-	-	-	P^N
s15q19a_15	Could not because did not have ID and/or Mpesa account	-	-	-	-	-	-	P^N
s15q19a_16	Afraid of uncertainty in insurance	-	-	-	-	-	-	P^N
s15q19a_17	Waiting to see what happens to other people with insurance	-	-	-	-	-	-	P^N
s15q19a_18	Can rely on family and friends	-	-	-	-	-	-	P^N
s15q19a_19	Coupon got lost	-	-	-	-	-	-	P^N
s15q19a_97	Other (specify)	-	-	-	-	-	-	P^N
s15q19a_97b	Reason specified	-	-	-	-	-	-	P^N
ibli_assessment	Do you think that the insurance product provided payouts at the right time?	-	-	-	-	-	-	P^N
ibli_what	Based on your understanding, what do you think IBLI is?	-	-	-	-	-	-	P^N
ibli_what_other	Item specified	-	-	-	-	-	-	P^N
ibli_type	What type of insurance is IBLI / Takaful?	-	-	-	-	-	-	P^N
ibli_cover	Which of the following risks related to livestock does IBLI cover?	-	-	-	-	-	-	P^N
ibli_cover_other	Risk specified	-	-	-	-	-	-	P^N
s15q25	How often do you have to pay a premium in order to remain insured?	-	B	B	B	B	B	P
s15q26	Based on your understanding of the livestock insurance, when do you expect indemnity payout (compensation)?	-	B	B	B	-	-	-
s15q27	Based on your understanding of the livestock insurance, what does indemnity payout (compensation) depend on?	-	B	-	-	-	-	-
s15q28	Suppose you insure 10 cattle at the replacement cost of 15,000 Ksh per cattle so that total value of cattle you insured is 150,000 Ksh. At the end of dry season, predicted livestock loss for your region is announced at 10%. How much insurance payment in KSH will you expect to receive?	-	B	B	B	-	-	-
s15q29	Now if at the end of dry season, predicted livestock loss for your region is announced at 30%. How much insurance payment in Ksh will you expect to receive?	-	B	-	-	-	-	-
s15q30	If you did not receive indemnity payout (compensation) from the livestock insurance, would you expect to receive your premium back?	-	B	B	B	B	B	-

Variable	Description							
s15q30_r7	If an IBLI client that purchased insurance does not receive an indemnity payout (compensation) from the livestock insurance by the time the contract ends, would they receive their premium back?	-	-	-	-	-	-	P^N
s15q27_r7	Based on your understanding of the livestock insurance, what measurements trigger an insurance indemnity payout?	-	-	-	-	-	-	P^N
s15q27_r7a	Measurements specified	-	-	-	-	-	-	P^N
s15q26_r7	When does the insurance company make a payout to a pastoralist with IBLI coverage?	-	-	-	-	-	-	P^N
s15q26_r7a	Condition specified	-	-	-	-	-	-	P^N
s15q31	What institution will provide you indemnity payout if there is a payout?	-	B	B	B	B	B	-
s15q31b	Other (specify) for s15q31	-	B	B	-	-	-	-
s15q41	When you receive an indemnity payment (compensation) in what form do you expect to receive it in?	-	-	B	B	B	B	-
s15q42	Based on your understanding of IBLI, what does the index upon which compensation is made represent?	-	-	B	B	-	-	-
s15q42_r7	Based on your understanding of IBLI, what does the index upon which compensation is made, represent?	-	-	-	-	-	-	P^N
s15q42_r7a	Item specified	-	-	-	-	-	-	P^N
ibli_perspective	Do you think that IBLI can be helpful?	-	-	-	-	-	-	P^N
data_quality_insurance	Enumerator, please indicate your assessment of the data quality for the insurance section	-	-	-	-	-	-	P^N
s15q43	Suppose that the IBLI index reads 100% - meaning that all livestock in the grazing area are predicted to have died. Also suppose that you had insured 100 cows. If the price of cows remains 15,000 KSh how many cows will the insurance money allow you to buy?	-	-	B	B	-	-	-
s15q48	Are you aware that there were changes in the contract in Aug/Sept of this year?	-	-	-	-	B	-	-
s15q49	Now that there are two contracts - one covering livestock losses above %15 and another covering what?	-	-	-	-	B	-	-
s15q50	If you have two contracts, one covering above 15% livestock losses and the other covering above 10% livestock losses, will they cost the same?	-	-	-	-	B	-	-
s15q51	Livestock insurance has become more expensive; why do you think that is the case?	-	-	-	-	B	-	-
s15q52	What is the price of a cow to be insured in the new contract (old=15,000 KSH)?	-	-	-	-	B	-	-
s15q48a6	In what months of the year will one receive compensation under the new contract? (Interviewer reads answer options to interviewee)	-	-	-	-	-	B	-
s15q53	If one buys insurance, under which of the following conditions will he or she get compensated? (Interviewer reads answer options to interviewee)	-	-	-	-	-	B	-
s15q48d1	Is UAP Insurance Company one of the two companies currently providing livestock insurance?	-	-	-	-	-	B	-
s15q48d2	Is APA Insurance Company one of the two companies currently providing livestock insurance?	-	-	-	-	-	B	-
s15q48d3	Is Equity Bank Insurance Company one of the two companies currently providing livestock insurance?	-	-	-	-	-	B	-
s15q48d4	Is Jubilee Insurance Company one of the two companies currently providing livestock insurance?	-	-	-	-	-	B	-
s15q48d5	Is Takaful Insurance Company one of the two companies currently providing livestock insurance?	-	-	-	-	-	B	-
s15q48d98	Don't know which insurance companies are currently providing livestock insurance	-	-	-	-	-	B	-
s15q48a1	Are you aware that there were changes in the contract in Jan/Feb of this year?	-	-	-	-	-	B	-
s15q48a2	Do you think the new contract provides better livestock insurance than the previous one?	-	-	-	-	-	B	-
s15q48a3	What is the most important reason why you think the new contract is better than the previous one?	-	-	-	-	-	B	-
s15q48a4	What is the most important reason why you think the previous contract is better than the new one?	-	-	-	-	-	B	-
s15q48a5	In the past, if one bought livestock insurance, he or she would get compensation in March or/and October after drought so that he or she can use compensation for restocking livestock or other coping strategies after drought. In January 2015, insurance company changed the insurance. Under the new insurance, if one buy the insurance, he or she would get compensation in February or/and August during drought so that he or she can use compensation to save his or her livestock alive or for other coping strategies during drought instead of after drought. Which livestock insurance do you prefer?	-	-	-	-	-	B	-
s15q44	Have your livestock losses in the last 12 months been higher than in the preceding 12 months?	-	-	B	-	-	-	-
s15q47a	For the case that you did not have insurance, you have said you would sell livestock in the next three months, how many camel would you intend to sell?	-	-	B	-	-	-	-
s15q47b	For the case that you did not have insurance, you have said you would sell livestock in the next three months, how many cattle would you intend to sell?	-	-	B	-	-	-	-

Code	Question							
s15q47c	For the case that you did not have insurance, you have said you would sell livestock in the next three months, how many sheep/goats would you intend to sell?	-	-	B	-	-	-	-
s15q52_i_a	Given that you have insurance, you have said you will sell livestock in the next three months, how many camel do you intend to sell?	-	-	B	-	-	-	-
s15q52_i_b	Given that you have insurance, you have said you will sell livestock in the next three months, how many cattle do you intend to sell?	-	-	B	-	-	-	-
s15q52_i_c	Given that you have insurance, you have said you will sell livestock in the next three months, how many sheep/goats do you intend to sell?	-	-	B	-	-	-	-
s15q52_u_a	Given that you do not have insurance, you have said you will sell livestock in the next three months, how many camel do you intend to sell?	-	-	B	-	-	-	-
s15q52_u	Given that you do not have insurance, you have said you will sell livestock in the next three months, how many cattle do you intend to sell?	-	-	B	-	-	-	-
s15q52_u_c	Given that you do not have insurance, you have said you will sell livestock in the next three months, how many sheep/goats do you intend to sell?	-	-	B	-	-	-	-
s15q53_u_a	For the case that you received 3000 KSh in cash, you have said you would sell livestock in the next three months, how many camel would you intend to sell?	-	-	B	-	-	-	-
s15q53_u_b	For the case that you received 3000 KSh in cash, you have said you would sell livestock in the next three months, how many cattle would you intend to sell?	-	-	B	-	-	-	-
s15q53_u_c	For the case that you received 3000 KSh in cash, you have said you would sell livestock in the next three months, how many sheep/goats would you intend to sell?	-	-	B	-	-	-	-
s15q49_r3	What do you expect the price of camel will be at the end of December of this year?	-	-	B	-	-	-	-
s15q48_r3	What do you expect the price of cattle will be at the end of December of this year?	-	-	B	-	-	-	-
s15q50_r3	What do you expect the price of sheep/goat will be at the end of December of this year?	-	-	B	-	-	-	-
s15q57a	Are you aware of a community dialogue meeting on livestock insurance that was held in your area in November of last year?	-	-	-	-	-	B	-
s15q57b	Were you invited to the meeting?	-	-	-	-	-	B	-
s15q57c	Did you attend the meeting?	-	-	-	-	-	B	-
s15q57d	Did the dialogue make you more interested and willing to purchase IBLI?	-	-	-	-	-	B	-
s15q57e	Are you aware that APA provided scholarships and solar lamps during the community dialogue?	-	-	-	-	-	B	-
s15q57f	Did you receive either of them?	-	-	-	-	-	B	-
s15q57g	Did it make you more of less interested and willing to buy IBLI?	-	-	-	-	-	B	-
s15q58a	Are you aware that the Kenyan government plans to distribute livestock insurance to some targeted pastoralists in Marsabit County next year?	-	-	-	-	-	B	-
s15q58a1	Do you think this is the same product as what was previously offered?	-	-	-	-	-	B	-
s15q58a2	Do you think the government product will only be available to selected individuals?	-	-	-	-	-	B	-
s15q58a3	Do you think the government product will be cheaper?	-	-	-	-	-	B	-
s15q58a4	Do you think the government product will be free?	-	-	-	-	-	B	-
s15q58a5	Do you think the government product will pay for frequently?	-	-	-	-	-	B	-
s15q58a6	Do you think the government product will make larger payments?	-	-	-	-	-	B	-
s15q58a7	Do you think there are other ways in which the new government product will be different?	-	-	-	-	-	B	-
s15q58a8	Do you not know how the government product will be different?	-	-	-	-	-	B	-
s15q58b	If the government were to offer livestock insurance, which of the following methods of providing coverage would you prefer? (Interviewer reads answer choices to interviewee)	-	-	-	-	-	B	-
s15q58c	If the government were to offer livestock insurance and target a select group of people, which of the following would you recommend they target? (Interviewer reads answer choices to interviewee)	-	-	-	-	-	B	-

Note:

s15q15h: IBLI were sold by Equity Bank in R2 and R3 and by APA Insurance in R4, R5 and R6. s15q18e was asked if s15q18b is equal to or more than 1 and s15q18c or s15q18d is no.

s15q48d1-98 were asked as follows: "Two of the following insurance companies currently provide livestock insurance in Marsabit Count: Which ones are they?"

s15q45 and s15q46 in "S15D Coping Strategies.dta" were asked between s15q44 and s15q47a.

s15q47a - s15q47c were asked if s15q18d was yes and s15q46 for "sell livestock" in "S15D Coping Strategies.dta" was yes.

s15q51 in "S15D Coping Strategies.dta" were asked between s15q47c and s15q52_i_a.

s15q52_i_a - s15q52_i_c were asked if s15q18d was yes and s15q51 for "sell livestock" in "S15D Coping Strategies.dta" was yes.

s15q53_i in "S15E Cash Spending.dta" and s15q46_u in "S15D Coping Strategies.dta" were asked between s15q52_i_c and s15q52_u_a.

s15q52_u_a - s15q52_u_c were asked if s15q18d was no and s15q46_u for "sell livestock" in "S15D Coping Strategies.dta" was yes.

s15q51_u in "S15D Coping Strategies.dta" were asked between s15q52_u_c and s15q53_u_a.

s15q53_u_a - s15q53_u_c were asked if s15q18d was no and s15q51_u for "sell livestock" in "S15D Coping Strategies.dta" was yes.

s15q53_u in "S15E Cash Spending.dta" were asked between s15q53_u_c and s15q49_r3.

The correct answers to the IBLI knowledge questions are as follows: s15q25 "Once every year", s15q26 "At the end of each DRY season when forage conditions are MUCH WORSE than normal", s15q27 "Predicted number of livestock lost due to poor forage condition averaged over the normal grazing areas of your community", s15q28 "0", s15q29 "22,500", s15q30 "No", s15q31 "UAP Insurance" in R2-3 and "APA insurance" in R4-6, s15q41 "In cash", s15q42 "Predicted number of livestock lost due to poor forage condition averaged over the normal grazing areas of your community", s15q43 "85 cows", s15q49 "covering above 10% livestock losses", s15q50 "No, the 10% costs more than the 15%"%", s15q52 "20,000 KSH", s15q48a6 "February and August", s15q53 "Severe shortage of forage due to drought", s15q48d1 "No", s15q48d2 "Yes", s15q48d3 "No", s15q48d4 "No", s15q48d5 "Yes".

* Implies new option values introduced.

[N] in R7 represents a new question.

[1] Starting in R6, similar HSNP questions appear in section s9b.

[2] This question was asked before the first IBLI sales period, which is how it differs from s15q15.

6.3.38 IBLI contracts

File: "S15B IBLI contracts.dta"

Unique identifying variables: hhid, round, contract_id

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	R	R	R	R	R	R
round	Survey round	-	R	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	R
contract_id	IBLI insurance contract ID	-	R	R	R	R	R	R
s15q19	Which contract sales period?	-	B	B	B	B	B	-
s15q19_b	Contract sales period	-	-	-	-	-	-	P
s15q19_1	Whose name is on insurance contract (member ID)?	-	B	B	B	B	B	P
s15q19_2	How much did you pay to the insurance agent (KSH)?	-	B	B	B	B	B	-
s15q40	Did you receive a discount coupon?	-	B	-	B	-	-	-
s15q35	What percent reduction did the discount coupon offer?	-	B	-	B	-	-	-
s15q22	Did you use the discount coupon?	-	-	B	-	B	-	-
s15q22a	How many cattle did you insure?	-	B	B	B	B	B	P
s15q22b	How many camels did you insure?	-	B	B	B	B	B	P
s15q22c	How many sheep/goats did you insure?	-	B	B	B	B	B	P
s15q39	In what index area did you insure your livestock?	-	-	B	B	B	-	-
s15q39_r6	In what index area did you insure your livestock?	-	-	-	-	-	B	-
s15q39_r7	In which index area did your household insure your livestock?	-	-	-	-		-	P
s15q39_a	What percentage strike point did you choose?	-	-	-	-	B	-	-
s15q54	Have you received an indemnity payment?	-	-	B	-	-	-	-
s15q55a	When did you receive the payment? DAY	-	-	B	-	-	-	-
s15q55b	When did you receive the payment? MONTH	-	-	B	-	-	-	-
s15q56	What value was the indemnity payment?	-	-	B	-	-	-	-

Note: In R4, only households that purchased IBLI were asked about receipt and use of a discount coupon, unlike the other rounds. Also, in R4 and R2 there was only one sales period (Aug/Sept for R4 and Jan/Feb for R2). In R6, we asked questions in this subsection only for Jan-Feb 2015 and Aug-Sep 2015 sales periods but not for Jan-Feb 2014 and Aug-Sep 2014 sales periods.

6.3.39 Indemnity Spending

File: "S15C Indemnity Spending.dta"

Unique identifying variables: hhid, round, Ind_ID

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	R	R	R	R	R
round	Survey round	-	-	R	R	R	R	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
Ind_ID	Indemnity spending item ID	-	-	R	R	R	R	-
Ind_ID_r7	Indemnity spending item ID for R7	-	-	-	-	-	-	R
s15q47c	With your indemnity payout from October (previous year), how much have you spent on this item?	-	-	-	B	-	-	-
s15q47d	Other (specify) for s15q47c	-	-	-	B	-	-	-
s15q47g	With your indemnity payout from March (current year), how much have you spent on this item?	-	-	-	B	B	B	-
s15q47h	Other (specify) for s15q47g	-	-	-	B	B	B	-
s15q47i	With your indemnity payout from August (current year), how much have you spent on this item?	-	-	-	-	-	B	-
s15q47j	Other (specify) for s15q47i	-	-	-	-	-	B	-
s15q47k	Yes if KLIP payouts (klip_payout in S15A) were spent on the item or activity of Ind_IR_r7	-	-	-	-	-	-	P
Ind_ID_r7a	Item or activity specified for Ind_ID_r7 and s15q47k	-	-	-	-	-	-	P
s15q47l	Yes if IBLI payouts (ibli_payout_yn in S15A) were spent on the item or activity of Ind_IR_r7	-	-	-	-	-	-	P
Ind_ID_r7b	Item or activity specified for Ind_ID_r7 and s15q47l	-	-	-	-	-	-	P
s15q53aI	For the insured, given that you are expected to get an indemnity payout or already have, how much of that cash have you already spent on this item?	-	-	B	-	-	-	-
s15q53bI	For the insured, given that you are expected to get an indemnity payout or already have, how much of that cash do you expect to spend on this item over the next three months?"	-	-	B	-	-	-	-
s15q53b2	For the insured, other (specify) for s15q53aI and s15q53bI	-	-	B	-	-	-	-
s15q53cU	For the uninsured, if you were to receive 3000 KSh in cash, how much of that money would you spend on this item over the next 3 months?"	-	-	B	-	-	-	-
s15q53c2	For the uninsured, other (specify) for s15q53cU	-	-	B	-	-	-	-

Note: In R3, this section was originally called "Cash Spending." The dates of IBLI indemnity payouts are listed in Table 1.

6.3.40 Coping Strategies

File: "S15D Coping Strategies.dta"

Unique identifying variables: hhid, round, CSID, CSID_r7

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	R	-	-	-	R
round	Survey round	-	-	R	-	-	-	R
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	-	-	-	R
CSID	Coping strategy ID	-	-	R	-	-	-	-
CSID_r7	Coping strategy ID for R7	-	-	-	-	-	-	R
s15q45a	Over the last 3 months, have you done this coping strategy differently in order to cope with these losses?	-	-	B	-	-	-	-
s15q45b	Rank of top three coping strategies for s15q45a	-	-	B	-	-	-	-
s15q45c	Other (specify) for s15q45a	-	-	B	-	-	-	-
s15q46Ia	We understand you've purchased insurance, however, if insurance weren't available to you, would you use this coping strategy to deal with your losses over the next three months?	-	-	B	-	-	-	-
s15q46Ib	Rank of top three coping strategies for s15q46Ia	-	-	B	-	-	-	-
s15q46Ic	Other (specify) for s15q46Ia	-	-	B	-	-	-	-
s15q51Ia	Given that you have received an indemnity payout and /or you are likely to receive insurance payments, do you expect to use this coping strategy to deal with losses over the next 3 months?	-	-	B	-	-	-	P
s15q51Ib	Rank of top three coping strategies for s15q51Ia	-	-	B	-	-	-	-
s15q51Ic	Other (specify) for s15q51Ia	-	-	B	-	-	-	-
s15q46Ua	Given that you do not have insurance, do you expect to use this coping strategy to deal with losses over the next 3 months?	-	-	B	-	-	-	-
s15q46Ub	Rank of top three coping strategies for s15q46Ua	-	-	B	-	-	-	-
s15q46Uc	Other (specify) for s15q46Ua	-	-	B	-	-	-	-
s15q51Ua	If you were to receive Kshs 3000 in cash as an indemnity payment, would you use this coping strategy to deal with your losses over the next 3 months?	-	-	B	-	-	-	-
s15q51Ub	Rank of top three coping strategies for s15q51Ua	-	-	B	-	-	-	-
s15q51Uc	Other (specify) for s15q51Ua	-	-	B	-	-	-	-
klip_payouts_change_coping	Did you change your response to drought because you knew that KLIP payments were coming? Asked if klip_payouts_change_coping_yn in S15A is yes.	-	-	-	-	-	-	P[N]
ibli_payouts_change_coping	Did you change your response to drought because you knew that payments were coming? Asked if ibli_payouts_change_coping_yn in S15A is yes.	-	-	-	-	-	-	P[N]

Note: [N] implies a new question.

6.3.41 Game and Discount Coupon

File: "S15E Game and Discount Coupon"

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	R	R	R	R	-	-
round	Survey round	-	R	R	R	R	-	-
game	1 if the household participated in insurance game in Dec 2009 - Jan 2010, 0 otherwise	-	R	-	-	-	-	-
discount_jan_2010	Discount percentage on discount coupon in Jan 2010	-	R	-	-	-	-	-
discount_jan_2011	Discount percentage on discount coupon in Jan 2011	-	-	R	-	-	-	-
discount_aug_2011	Discount percentage on discount coupon in Aug 2011	-	-	R	-	-	-	-
discount_aug_2012	Discount percentage on discount coupon in Aug 2012	-	-	-	R	-	-	-
discount_jan_2013	Discount percentage on discount coupon in Jan 2013	-	-	-	-	R	-	-
discount_aug_2013	Discount percentage on discount coupon in Aug 2013	-	-	-	-	R	-	-

Note: This section is not part of the household survey. discount-jan_2010 – discount_aut_2013 represent the "intent to treat" encouragement design as compiled by the IBLI/ILRI research team, which shows which households supposed to receive discount coupons. On the other hand, game is the "treated" encouragement design showing which households participated in insurance game. The variables in this section can be compared with respondent recall.

6.3.42 Risk Preference Experiment

File: "S16 Experiment of Risk Preference.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	R	R	R	R	R	R	-
round	Survey round	R	R	R	R	R	R	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	R	R	R	R	-
s16q1	Category chosen of the game	B	N	N	N	N	N	-
s16q2	Heads or tail of the coin	B	N	N	N	N	N	-
s16q3	Amount of money obtained by the household after playing the game	B	N	N	N	N	N	-
s16q4	Did you receive the money?	-	-	N	N	N	N	-

Note: s16q4, question confirming whether indeed a respondent received the money after playing the game was included in R3-R5. While the probability distribution of s16q2 should be 50/50 'heads/tails,' we find only 38% 'heads,' implying that some enumerators may have favored some respondents with the larger payout associated with a 'tails' outcome.

6.3.43 Household Feedback

File: "S17 Household Feedback."

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	-	R	-	-
round	Survey round	-	-	-	-	R	-	-
comment	1 if there is comment in S0B Comment.dta, 0 otherwise	-	-	-	-	R	-	-
s17q1	Of how much value do you think the information you give in this survey is for helping the government, researchers and NGOs support development in this area?	-	-	-	-	P	-	-
s17q7	Last month, ILRI researchers came to the area and called survey households together to explain why we conduct the survey, present some of the information you have been giving us, and discuss how it can help the community. Were you informed about the gathering (prior to the day they came to your area)?	-	-	-	-	P	-	-
s17q2	Did you attend the gathering?	-	-	-	-	P	-	-
s17q11	Did you find the feedback engagement session helpful?	-	-	-	-	P	-	-
s17q12	Did it make you more or less interested and willing to be a participant in the study?	-	-	-	-	P	-	-
s17q13	Did anyone else in your household attend?	-	-	-	-	P	-	-
s17q8	Who in your household attended?	-	-	-	-	P	-	-
s17q9	Did you get feedback from the participant?	-	-	-	-	P	-	-
s17q3	Did you find the feedback you received on the session from your family member helpful?	-	-	-	-	P	-	-
s17q4	Did the feedback from your family member make you more or less interested and willing to be a participant in the study?	-	-	-	-	P	-	-
s17q5	Did you hear other members of the community who attended the session talking about it?	-	-	-	-	P	-	-
s17q6	Did what you hear from members of your community make you more or less interested and willing to be a participant in this study?	-	-	-	-	P	-	-
s17q10	Why didn't you or anyone in your household attend the gathering yet you had prior information?	-	-	-	-	P	-	-

6.4 Sections that are new to round 7

6.4.1 Decision Making

File: "S18 Decision Making.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
s18q1	To what extent are you involved in household decisions regarding: Buying food for the household?	-	-	-	-	-	-	P^N
s18q2	Purchasing household items (like cups)?	-	-	-	-	-	-	P^N
s18q3	Paying for children's medical expenses?	-	-	-	-	-	-	P^N
s18q4	Paying for children's school fees?	-	-	-	-	-	-	P^N
s18q5	Which children to send to school?	-	-	-	-	-	-	P^N
s18q6	Purchasing livestock for yourself?	-	-	-	-	-	-	P^N
s18q7	Purchasing livestock for the whole family or household?	-	-	-	-	-	-	P^N
s18q8	Selling livestock you own?	-	-	-	-	-	-	P^N
s18q10	Selling livestock your household own?	-	-	-	-	-	-	P^N
s18q11	Community-level decisions (e.g., decisions regarding public spaces and infrastructure)	-	-	-	-	-	-	P^N
s18q12	Buying or selling cows?	-	-	-	-	-	-	P^N
s18q13	Buying or selling sheep?	-	-	-	-	-	-	P^N
s18q14	Buying or selling goats?	-	-	-	-	-	-	P^N
s18q15	Buying or selling camels?	-	-	-	-	-	-	P^N

Note: ^{N} implies a new question.

6.4.2 Emotional Health (CESD-10)

File: "S19 Emotional Health.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
s19q1	Please state how often you have felt this way during the past week: I was bothered by things that usually don't bother me	-	-	-	-	-	-	P^N
s19q2	I had trouble keeping my mind on what I was doing	-	-	-	-	-	-	P^N
s19q3	I felt depressed	-	-	-	-	-	-	P^N
s19q4	I felt that everything I did was an effort	-	-	-	-	-	-	P^N
s19q5	I felt hopeful about the future	-	-	-	-	-	-	P^N
s19q6	I felt fearful	-	-	-	-	-	-	P^N
s19q7	My sleep was restless	-	-	-	-	-	-	P^N
s19q8	I was happy	-	-	-	-	-	-	P^N
s19q9	I felt lonely	-	-	-	-	-	-	P^N
s19q10	I could not 'get going'	-	-	-	-	-	-	P^N
data_quality_dec_eh	Enumerator, please indicate your assessment of the data quality for the decision making and emotional health sections.	-	-	-	-	-	-	P^N

Note: ^{N} implies a new question.

6.4.3 Conflict

File: "S20 Conflict.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
conflict_yn	Were there any conflicts in this region in the 12 months?	-	-	-	-	-	-	P[N]
conflict_why_1	What was the cause of conflict? To steal cattle	-	-	-	-	-	-	P[N]
conflict_why_2	In response to past cattle theft	-	-	-	-	-	-	P[N]
conflict_why_3	Access to pasture	-	-	-	-	-	-	P[N]
conflict_why_4	Access to water	-	-	-	-	-	-	P[N]
conflict_why_5	Ethnic tensions	-	-	-	-	-	-	P[N]
conflict_why_6	Resource scarcity due to drought	-	-	-	-	-	-	P[N]
conflict_why_7	Resource scarcity due to encroachment of settlements	-	-	-	-	-	-	P[N]
conflict_why_97	Other	-	-	-	-	-	-	P[N]
conflict_why_other	What was the OTHER cause of conflict?	-	-	-	-	-	-	P[N]
conflict_impact_yn	Was your household affected by the conflict?	-	-	-	-	-	-	P[N]
conflict_impact_how_1	In what ways was your household affected? Loss of a household member	-	-	-	-	-	-	P[N]
conflict_impact_how_2	Loss of a friend or relative	-	-	-	-	-	-	P[N]
conflict_impact_how_3	Loss of cattle	-	-	-	-	-	-	P[N]
conflict_impact_how_4	Loss of crops	-	-	-	-	-	-	P[N]
conflict_impact_how_5	Loss of assets (e.g., tools, house destroyed)	-	-	-	-	-	-	P[N]
conflict_impact_how_6	Can no longer access specific rangelands / change to herding strategies	-	-	-	-	-	-	P[N]
conflict_impact_how_7	Have relocated to a more secure location	-	-	-	-	-	-	P[N]
conflict_impact_how_8	No longer practice extensive grazing	-	-	-	-	-	-	P[N]
conflict_impact_how_9	No longer grow crops	-	-	-	-	-	-	P[N]
conflict_impact_how_10	Herd in larger groups	-	-	-	-	-	-	P[N]
conflict_impact_how_97	Other	-	-	-	-	-	-	P[N]
conflict_impact_how_other	How else did the conflict impact you?	-	-	-	-	-	-	P[N]
conflict_community_impact_1	How was the community affected? Loss of human life	-	-	-	-	-	-	P[N]
conflict_community_impact_2	Loss of livestock	-	-	-	-	-	-	P[N]
conflict_community_impact_3	Food prices increased	-	-	-	-	-	-	P[N]
conflict_community_impact_4	Livestock market function impacted	-	-	-	-	-	-	P[N]
conflict_community_impact_5	Greater food insecurity	-	-	-	-	-	-	P[N]
conflict_community_impact_6	NGO/ Govt Orgs arrived with aid	-	-	-	-	-	-	P[N]
conflict_community_impact_97	Other	-	-	-	-	-	-	P[N]
conflict_community_impact_other	What were some of the other ways the community was affected?	-	-	-	-	-	-	P[N]

Note: [N] implies a new question.

6.4.4 Cognitive Well-being

File: "S21 Cognitive Wellbeing.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
s21q1	You saw 4 livestock	-	-	-	-	-	-	P^N
s21q2	You saw 3 goats	-	-	-	-	-	-	P^N
s21q3	You saw 2 sheep	-	-	-	-	-	-	P^N
s21q4	You saw 2 goats	-	-	-	-	-	-	P^N

Note: ^{N} implies a new question.

6.4.5 Mobile Phones and Market Participation

File: "S22 Mobile Phones and Market Participation.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
s22q1	Where do you commonly purchase your livestock?	-	-	-	-	-	-	P^N
S21q1a	Other specify	-	-	-	-	-	-	P^N
s22q2	Where do you commonly sell your livestock?	-	-	-	-	-	-	P^N
s22q2a	Other specify	-	-	-	-	-	-	P^N
s22q3	What is the MOST common challenge faced by your household in purchasing livestock?	-	-	-	-	-	-	P^N
s22q3a	Other specify	-	-	-	-	-	-	P^N
s22q4	What is the MOST common challenge faced by your household in selling livestock?	-	-	-	-	-	-	P^N
s22q4a	Other specify	-	-	-	-	-	-	P^N
s22q5	Which source of market information did your household access the most in the past?	-	-	-	-	-	-	P^N
s22q5a	Other specify	-	-	-	-	-	-	P^N
s22q6	Which is the MOST common means (channel) used to obtain the market information from?	-	-	-	-	-	-	P^N
s22q6a	Other specify	-	-	-	-	-	-	P^N
s22q7	How long (in years) have you owned a mobile phone?	-	-	-	-	-	-	P^N
s22q8	How long (in years) have you used a mobile phone in livestock marketing information?	-	-	-	-	-	-	P^N
s22q9	When (in terms of year) did any member of your household begin accessing a mobile phone?	-	-	-	-	-	-	P^N
s22q10	When (in terms of year) did your area became connected to mobile phone network?	-	-	-	-	-	-	P^N
s22q11a	Which of the following types of information that you often get from a mobile phone?	-	-	-	-	-	-	P^N
s22q11a_a	Other specify	-	-	-	-	-	-	P^N
s22q11b	Which of the following types of information that you often get from a mobile phone?	-	-	-	-	-	-	P^N
s22q11b_a	Other specify	-	-	-	-	-	-	P^N
s22q11c	Which of the following types of information that you often get from a mobile phone?	-	-	-	-	-	-	P^N
s22q11c_a	Other specify	-	-	-	-	-	-	P^N
s22q11d	Which of the following types of information that you often get from a mobile phone?	-	-	-	-	-	-	P^N
s22q11d_a	Other specify	-	-	-	-	-	-	P^N
s22q11e	Which of the following types of information that you often get from a mobile phone?	-	-	-	-	-	-	P^N
s22q11e_a	Other specify	-	-	-	-	-	-	P^N
s22q13a	Which is the MOST important constraint you often face when using mobile phones in getting market information?	-	-	-	-	-	-	P^N
s22q13a_a	Other specify	-	-	-	-	-	-	P^N
s22q13b	Which is the second most important constraint you often face when using mobile phones in getting market information?	-	-	-	-	-	-	P^N
s22q13b_a	Other specify	-	-	-	-	-	-	P^N
s22q13c	Which is the third most important constraint you often face when using mobile phones in getting market information?	-	-	-	-	-	-	P^N
s22q13c_a	Other specify	-	-	-	-	-	-	P^N
s22q13d	Which is the fourth most important constraint you often face when using mobile phones in getting market information?	-	-	-	-	-	-	P^N
s22q13d_a	Other specify	-	-	-	-	-	-	P^N
s22q13e	Which is the fifth most important constraint you often face when using mobile phones in getting market information?	-	-	-	-	-	-	P^N
s22q13e_a	Other specify	-	-	-	-	-	-	P^N
s22q14a	Which is the MOST livestock market information often needed?	-	-	-	-	-	-	P^N
s22q14a_a	Other specify	-	-	-	-	-	-	P^N

s22q14b	Which is the second most needed livestock market information?	-	-	-	-	-	-	P[N]
s22q14b_a	Other specify	-	-	-	-	-	-	P[N]
s22q14c	Which is the third most needed livestock market information?	-	-	-	-	-	-	P[N]
s22q14c_a	Other specify	-	-	-	-	-	-	P[N]
s22q14d	Which is the fourth most needed livestock market information?	-	-	-	-	-	-	P[N]
s22q14d_a	Other specify	-	-	-	-	-	-	P[N]
s22q14e	Which is the fifth most needed livestock market information?	-	-	-	-	-	-	P[N]
s22q14e_a	Other specify	-	-	-	-	-	-	P[N]

Note: [N] implies a new question.

6.4.6 Other Programming

File: "S23 Other Programming.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R 2	R3	R 4	R 5	R 6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
s23q1	Have you ever heard of Afriscout?	-	-	-	-	-	-	P^N
s23q1b	Do you feel that Afriscout is helpful for pastoralists?	-	-	-	-	-	-	P^N
s23q1c	Do you have access to the information from Afriscout, either because you are client or because someone you know is a client and shares it with you?	-	-	-	-	-	-	P^N
s23q2a	Have you ever heard of BOMA?	-	-	-	-	-	-	P^N
s23q2b	Do you feel that the BOMA program is helpful for pastoralists?	-	-	-	-	-	-	P^N
s23q2c	Are you or were you ever a participant in the BOMA program?	-	-	-	-	-	-	P^N
s23q2d	Is the business that you started with BOMA still running?	-	-	-	-	-	-	P^N
s23q2e1	Which type of business did you start with BOMA that is still running? Poulty Farming	-	-	-	-	-	-	P^N
s23q2e2	Fish Business	-	-	-	-	-	-	P^N
s23q2e3	Kiosk/Dukas	-	-	-	-	-	-	P^N
s23q2e4	Barber Shop	-	-	-	-	-	-	P^N
s23q2e5	Grocery	-	-	-	-	-	-	P^N
s23q2e6	Tree Nursery	-	-	-	-	-	-	P^N
s23q2e7	Tailoring	-	-	-	-	-	-	P^N
s23q2e8	Mechanic	-	-	-	-	-	-	P^N
s23q2e9	Livestock Sales	-	-	-	-	-	-	P^N
s23q2e10	Butchery	-	-	-	-	-	-	P^N
s23q2e11	Beads, Crafts, Curio	-	-	-	-	-	-	P^N
s23q2e12	Cloths	-	-	-	-	-	-	P^N
s23q2e13	Petrol	-	-	-	-	-	-	P^N
s23q2e14	Hotel	-	-	-	-	-	-	P^N
s23q2e15	Miraa	-	-	-	-	-	-	P^N
s23q2e16	Bar/Alcohol Sales	-	-	-	-	-	-	P^N
s23q2e17	Tobacco	-	-	-	-	-	-	P^N
s23q2e18	Aloe Vera	-	-	-	-	-	-	P^N
s23q2e97	Other	-	-	-	-	-	-	P^N
s23q3a	Is your family participating in any other projects?	-	-	-	-	-	-	P^N
s23q3b	Which programs?	-	-	-	-	-	-	P^N

Note: ^{N} implies a new question.

6.4.7 Food Security

File: "S24 Food Security.dta"

Unique identifying variables: hhid, round

Variable	Description	R1	R2	R3	R4	R5	R6	R7
hhid	Household ID	-	-	-	-	-	-	R
round	Survey round	-	-	-	-	-	-	R
rcsi_1	In the past 7 days, if there have been times when you did not have enough food or money to buy food, how often has your household had to: Rely on less preferred and less expensive foods?	-	-	-	-	-	-	P^N
rcsi_2	Borrow food, or rely on help from a friend or relative?	-	-	-	-	-	-	P^N
rcsi_3	Limit portion size at mealtimes?	-	-	-	-	-	-	P^N
rcsi_4	Restrict consumption by adults in order for small children to eat?	-	-	-	-	-	-	P^N
rcsi_5	Reduce number of meals eaten in a day?	-	-	-	-	-	-	P^N
hhs_1	Over the LAST 4 WEEKS / 30 DAYS, how often: Was as there ever no food to eat of any kind in your house because of lack of resources to get food?	-	-	-	-	-	-	P^N
hhs_2	Did you or any household member go to sleep at night hungry because there was not enough food?	-	-	-	-	-	-	P^N
hhs_3	Did you or any household member go a whole day and night without eating anything at all because there was not enough food?	-	-	-	-	-	-	P^N
resilience_1	Which of the following scenarios best describes your household's situation since September 2015?	-	-	-	-	-	-	P^N
data_quality_cons_fs	Enumerator, please indicate your assessment of the data quality for the consumption and food security sections.	-	-	-	-	-	-	P^N

Note: N implies a new question.

6 Conditions on Data Use

All publications based on the data will give due acknowledgement to the project for its role in generating the data and to UK Department for International Development, the Australian Department of Foreign Affairs and Trade, the Agriculture and Rural Development Sector of the European Union, the United States Agency for International Development, the World, the CGIAR Research Programs on Climate Change, Agriculture and Food Security (CCAFS) and Dryland Systems, the Standing Panel on Impact Assessment (SPIA) of the CGIAR and the CGIAR Research Program on Livestock. An attribution statement similar to that provided in the Section 6.1 below should be included.

6.1 Suggested citation for acknowledgement

7 References

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