

# Liberia - Multi-Tier Framework for Measuring Energy Access 2017

**Energy Sector Management Assistance Program (ESMAP)**

Report generated on: January 27, 2026

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## Identification

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SURVEY ID NUMBER  
LBR\_2017\_MTF\_v01\_M

TITLE  
Multi-Tier Framework for Measuring Energy Access 2017

ABBREVIATION OR ACRONYM  
MTF 2017

COUNTRY/ECONOMY

Name	Country code
Liberia	LBR

STUDY TYPE  
Other Household Survey [hh/oth]

SERIES INFORMATION

The World Bank, with the support of the Energy Sector Management Assistance Program (ESMAP), has launched the Global Survey on Energy Access, which relies on the Multi-Tier Framework (MTF) approach. The first phase is being carried out in 17 countries across Latin America, Africa, and Asia. The survey's objective is to provide more nuanced data on energy access, including access to electricity and cooking solutions. The MTF approach goes beyond the traditional binary measurement of energy access-for example, "having or not having" a connection to electricity, and "using or not using" clean fuels in cooking - to capture the multidimensional nature of energy access and the vast range of technologies and sources that can provide energy access, while accounting for the large differences in user experiences. The MTF survey provides detailed household energy data for governments, development partners, the private sector, non-governmental organizations, investors, and service providers.

ABSTRACT

The MTF survey is a global baseline survey on household access to electricity and clean cooking, which goes beyond the binary approach to look at access as a spectrum of service levels experienced by households. The resulting dataset contains responses from households to questions on experiences concerning their electricity services and cooking practices, as well as questions on their basic socioeconomic factors, such as age, gender, education, expenditure, and health.

KIND OF DATA  
Sample survey data [ssd]

UNIT OF ANALYSIS  
Households

## Version

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VERSION DESCRIPTION  
Version 01: Anonymous raw dataset for public distribution

VERSION NOTES  
This dataset is the rawdata set provided by the survey firm, without any personal information, such as name.

## Scope

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NOTES  
Household characteristics, access to electricity services and specific experiences, willingness to pay for Grid or Off-grid connection, fuel consumption, cooking equipment, assets, expenditure, time use, health, attitudes, economic shocks.

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name	Affiliation
Energy Sector Management Assistance Program (ESMAP)	World Bank

## Sampling

### SAMPLING PROCEDURE

Sample size of 3504. Stratified random sampling, with equal allocation between urban and rural areas and equal allocation between grid-user and non-user households. Nationally representative sample. For details on sampling, please refer to the sampling strategy document.

## Data collection

### DATES OF DATA COLLECTION

Start	End
2017-03-01	2017-07-01

### DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

### DATA COLLECTORS

Name
NRECA International

## Questionnaires

### QUESTIONNAIRES

The 2017 Liberia MTF survey questionnaire consists of the following sections:

- Household identification
- Household roster
- Household characteristics
- Supply and demand of electricity
- Willingness to pay for a grid connection
- Willingness to pay for solar device
- Kerosene/ fuel-based / candle lighting
- Dry-cell batteries
- Household fuel consumption
- Use of cooking solutions
- Main cookstove
- Space and water heating
- Willingness to pay for and improved cookstove
- Consumption / expenditure
- Household assets

- Household land ownership and other assets
- Household economic shocks
- Street lighting
- Time use
- Heating impacts
- Women's empowerment

## Access policy

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### CONTACTS

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### CONFIDENTIALITY

Energy Sector Management Assistance Program, World Bank. Multi-Tier Framework for Measuring Energy Access - Liberia Household Survey (2020).

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### COPYRIGHT

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## Metadata production

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### DDI DOCUMENT ID

DDI\_LBR\_2017\_MTF\_v01\_M

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Development Economics Data Group	DECDG	The World Bank	Documentation of the study

### DATE OF METADATA PRODUCTION

2021-04-19

### DDI DOCUMENT VERSION

Version 01 (April 2021)

## Data Dictionary

Data file	Cases	Variables
<b>MTF_HH_Main.dta</b> - Household characteristics - Supply and demand of electricity <ul style="list-style-type: none"> <li>• Electricity from national grid</li> <li>• Electricity from mini grid</li> <li>• Electric generator set</li> <li>• Externally recharged battery (car battery, etc)</li> <li>• Main solar-based device</li> <li>• Main source of electricity</li> </ul> - Willingness to pay for a grid connection - Willingness to pay for solar device - Kerosene/fuel-based /candle lighting - Dry-cell batteries - Household fuel consumption - Use of cooking solutions - Main cookstove - Space and water heating - Willingness to pay for an improved cookstove - Consumption / expenditure <ul style="list-style-type: none"> <li>• Consumption</li> <li>• Goods and services monthly expenditure</li> <li>• Goods and services expenditure in last 12 months</li> </ul> - Street lighting - Women's empowerment	3903	622
<b>MTF_HH_Characteristics.dta</b> Household roster	19408	19
<b>MTF_HH_SectionC1.dta</b> Electricity from Mini Grid - Availability of electricity in worst and typical months	366	10
<b>MTF_HH_SectionC2.dta</b> Electricity from solar-based device - Availability of electricity in worst and typical months	552	7
<b>MTF_HH_SectionC3.dta</b> Electrical device (lighting and appliances) - Ownership, working condition, source of electricity, and usage	6250	18
<b>MTF_HH_SectionG.dta</b> Dry-cell batteries	3432	21
<b>MTF_HH_SectionH.dta</b> Household fuel consumption	3877	46
<b>MTF_HH_SectionM.dta</b> Household assets - Transportation and agricultural equipment ownership and total	201	20



**Data file: MTF\_HH\_Main.dta**

- Household characteristics
- Supply and demand of electricity
  - Electricity from national grid
  - Electricity from mini grid
  - Electric generator set
  - Externally recharged battery (car battery, etc)
  - Main solar-based device
  - Main source of electricity
- Willingness to pay for a grid connection
- Willingness to pay for solar device
- Kerosene/fuel-based /candle lighting
- Dry-cell batteries
- Household fuel consumption
- Use of cooking solutions
- Main cookstove
- Space and water heating
- Willingness to pay for an improved cookstove
- Consumption / expenditure
  - Consumption
  - Goods and services monthly expenditure
  - Goods and services expenditure in last 12 months
- Street lighting
- Women's empowerment

Cases: 3903

Variables: 622

**Variables**

ID	Name	Label	Question
V1	HH_ID	Household ID	
V2	Date_of_questionnaire_submission	Date of the questionnaire submission	
V3	County	Select the county of survey	2. County
V4	District	Select the district of survey	3. District
V5	EA	Specify the EA of survey	4. EA
V6	Locality	Select the locality of survey	5. Locality
V7	Language	Language of interview	8. Language of interview
V8	Household_structure	Scan the barcode of on your enumerator ID	
V9	Number_of_apartment_units	Enter in the number of units apartment units or separate dwellings found at this	
V10	Height	Height	
V11	Length	Foot Length	
V12	First_date_of_interview	Date of 1st Interview	15. Date of Interview
V13	Second_date_of_interview	Date of 2nd Interview	18. Date of Second Interview
V14	Third_date_of_interview	Date of 3rd Interview	21. Date of Third Interview
V15	Consent	Do you consent to take part in this survey?	
V16	HH_members	How many individuals are in this household (that fulfill the criteria in the pre	
V17	HH_roaster	Household Roster	

ID	Name	Label	Question
V18	B1	Enumerator: Scan the household roster barcode to register the respondent ID for	B.1. Enumerator: Record Respondent ID for this section
V19	B2	Does your household live in this dwelling for the entire year?	B.2. Does your household live in this dwelling for the entire year?
V20	B3	Is this your main dwelling?	B.3. Is this your main dwelling?
V21	B4	What is the type of dwelling?	B.4. What is the type of dwelling?
V22	B4_other	What is the type of dwelling? (Other)	B.4. What is the type of dwelling? Other
V23	B5	How many households share your dwelling?	B.5. How many households share your dwelling?
V24	B6	Do you own this dwelling?	B.6. Do you own this dwelling?
V25	B7	Do you use it for free or rent it?	B.7. Do you use it for free or rent it?
V26	B8	How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy?	B.8. How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy?
V27	B9	The walls of the dwelling are mainly made of what material?	B.9. The walls of the dwelling are mainly made of what material?
V28	B9_other	The walls of the dwelling are mainly made of what material? (Other)	B.9. The walls of the dwelling are mainly made of what material? Other
V29	B10	The roof of the dwelling is mainly made of what material?	B.10. The roof of the dwelling is mainly made of what material?
V30	B10_other	The roof of the dwelling is mainly made of what material? (Other)	B.10. The roof of the dwelling is mainly made of what material? Other
V31	B11	The floor of the dwelling is mainly made of what material?	B.11. The floor of the dwelling is mainly made of what material?
V32	B11_other	The floor of the dwelling is mainly made of what material? (Other)	B.11. The floor of the dwelling is mainly made of what material? Other
V33	B12_1	What type of toilet facility does your household use? (#1/8)	B.12. What type of toilet facility does your household use?
V34	B12_2	What type of toilet facility does your household use? (#2/8)	B.12. What type of toilet facility does your household use?
V35	B12_other	What type of toilet facility does your household use? (Other)	B.12. What type of toilet facility does your household use? Other
V36	B13	What is your household's main source of drinking water?	B.13. What is your household's main source of drinking water?
V37	B13_other	What is your household's main source of drinking water? (Other)	B.13. What is your household's main source of drinking water? Other
V38	B14	Is your drinking water treated (chemical treatment)?	B.14. Is your drinking water treated (chemical treatment)?
V39	B15_1	If you can get a loan/credit, what are the sources of credit/loans? (#1/14)	B.15. If you can get a loan/credit, what are the sources of credit/loans?
V40	B15_2	If you can get a loan/credit, what are the sources of credit/loans? (#2/14)	B.15. If you can get a loan/credit, what are the sources of credit/loans?
V41	B15_3	If you can get a loan/credit, what are the sources of credit/loans? (#3/14)	B.15. If you can get a loan/credit, what are the sources of credit/loans?
V42	B15_other	If you can get a loan/credit, what are the sources of credit/loans? (Other)	B.15. If you can get a loan/credit, what are the sources of credit/loans? Other
V43	B16	Do you have a mobile money account?	B.16. Do you have a mobile money account?
V44	B17	Do you use mobile money to make payments over the mobile phone?	B.17. Do you use mobile money to make payments over the mobile phone?

ID	Name	Label	Question
V45	B18	Have you used the account in the past 90 days?	B.18. Have you used the account in the past 90 days?
V46	B19_1	How do you use the mobile money services? (#1/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V47	B19_2	How do you use the mobile money services? (#2/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V48	B19_3	How do you use the mobile money services? (#3/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V49	B19_4	How do you use the mobile money services? (#4/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V50	B19_5	How do you use the mobile money services? (#5/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V51	B19_6	How do you use the mobile money services? (#6/13)	B.19. How do you use the mobile money services? (Mark all that apply)
V52	B19_other	How do you use the mobile money services? (Other)	B.19. How do you use the mobile money services? Other
V53	C1	Enumerator: Scan the household roster barcode to register the respondent ID for	C.1. Enumerator: Record Respondent ID for this section
V54	C2	Is the household connected to the national grid?	C.2. Is the household connected to the national grid?
V55	C3a	How far is your house from the nearest national grid line in kilometers?	C.3. How far is your house from the nearest national grid line?
V56	C3b	How far is your house from the nearest national grid line in terms of minutes wa	C.3. How far is your house from the nearest national grid line?
V57	C4	What is the MAIN reason why your household is not connected to the grid?	C.4. What is the MAIN reason why your household is not connected to the grid?
V58	C4_other	What is the MAIN reason why your household is not connected to the grid? (Other)	C.4. What is the MAIN reason why your household is not connected to the grid? Other
V59	C5	Do you expect to get grid connection?	C.5. Do you expect to get grid connection?
V60	C6	What month and year do you expect to get grid connection?	C.6. What month and year do you expect to get grid connection?
V61	C7	How many years have you had this grid connection?	C.7. How many years have you had this grid connection?
V62	C8	How much did your household pay for the grid connection fee?	C.8. How much did your household pay for the grid connection fee?
V63	C9	How much did your household pay for the internal wiring fee?	C.9. How much did your household pay for the internal wiring fee?
V64	C10	How many weeks after you applied for the grid connection did your household get	C.10. How many weeks after you applied for the grid connection did your household get connected?
V65	C11	How many weeks after you were connected were you able to use electricity in your	C.11. How many weeks after you were connected were you able to use electricity in your home?
V66	C12	Who receives the payment for your electricity service?	C.12. Who receives the payment for your electricity service?
V67	C12_other	Who receives the payment for your electricity service? (Other)	C.12. Who receives the payment for your electricity service? Other
V68	C13	Does your household have an electric meter?	C.13. Does your household have an electric meter?
V69	C14	Is this a pre-paid meter?	C.14. Is this a pre-paid meter?
V70	C15	Does your household share the electric meter?	C.15. Does your household share the electric meter?

ID	Name	Label	Question
V71	C16	How many households are sharing the meter?	C.16. How many households are sharing the meter?
V72	C17	How are you billed for electricity?	C.17. How are you billed for electricity?
V73	C17_other	How are you billed for electricity? (Other)	C.17. How are you billed for electricity? Other
V74	C18	What is the most common way you make your electricity bill payment?	C.18. What is the most common way you make your electricity bill payment?
V75	C18_other	What is the most common way you make your electricity bill payment? (Other)	C.18. What is the most common way you make your electricity bill payment? Other
V76	C19	Enumerator: If the respondent pays the energy company or has a record of the ele	
V77	C20	In a typical month, how much did you spend on the electric bill?	C.20. In a typical month, how much did you spend on the electric bill?
V78	C21	In a typical month how much electricity did your household consume?	C.21. In a typical month how much electricity did your household consume?
V79	C20b	In a typical month, how much did you spend on electricity?	
V80	C22	Is the quality of electricity service the same all year?	C.22. Is the quality of electricity service the same all year?
V81	C23_1	What are the worst months for service from the grid? (#1/13)	C.23. What are the worst months for service from the grid?
V82	C23_2	What are the worst months for service from the grid? (#2/13)	C.23. What are the worst months for service from the grid?
V83	C23_3	What are the worst months for service from the grid? (#3/13)	C.23. What are the worst months for service from the grid?
V84	C23_4	What are the worst months for service from the grid? (#4/13)	C.23. What are the worst months for service from the grid?
V85	C23_5	What are the worst months for service from the grid? (#5/13)	C.23. What are the worst months for service from the grid?
V86	C23_6	What are the worst months for service from the grid? (#6/13)	C.23. What are the worst months for service from the grid?
V87	C23_7	What are the worst months for service from the grid? (#7/13)	C.23. What are the worst months for service from the grid?
V88	C23_8	What are the worst months for service from the grid? (#8/13)	C.23. What are the worst months for service from the grid?
V89	C23_9	What are the worst months for service from the grid? (#9/13)	C.23. What are the worst months for service from the grid?
V90	C23_10	What are the worst months for service from the grid? (#10/13)	C.23. What are the worst months for service from the grid?
V91	C23_11	What are the worst months for service from the grid? (#11/13)	C.23. What are the worst months for service from the grid?
V92	C23_12	What are the worst months for service from the grid? (#12/13)	C.23. What are the worst months for service from the grid?
V93	C23_13	What are the worst months for service from the grid? (#13/13)	C.23. What are the worst months for service from the grid?
V94	C242		
V95	C24_29_count	Ss-MTF-Ca-C24_29_count	
V96	SETOFsSMTFCaC24_29	Worst Months of Electricity	

ID	Name	Label	Question
V97	C30	What is your main back-up source of lighting during outages/blackouts of the gri	C.30. What is your main back-up source of lighting during outages/blackouts of the grid?
V98	C30_other	What is your main back-up source of lighting during outages/blackouts of the gri	C.30. What is your main back-up source of lighting during outages/blackouts of the grid? Other
V99	C31	What is your main back-up source of electricity for appliances (including mobile	C.31. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?
V100	C31_other	What is your main back-up source of electricity for appliances (including mobile	C.31. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid? Other
V101	C32	How do you request for repairs in electricity service or file a complaint?	C.32. How do you request for repairs in electricity service or file a complaint?
V102	C32_other	How do you request for repairs in electricity service or file a complaint? (Othe	C.32. How do you request for repairs in electricity service or file a complaint? Other
V103	C33	When there is a blackout in your community, who do you usually approach for assi	C.33. When there is a blackout in your community, who do you usually approach for assistance?
V104	C33b		
V105	C34	The last time you asked for assistance, how many days after you contacted \${C33b	C.34. The last time you asked for assistance, how many days after you contacted [C.33 response] did they come to fix the problem?
V106	C35	In the last 12 months, did any of your appliances get damaged because the voltag	C.35. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?
V107	C36a	What are the most serious problems you experience with your grid electricity?	a. First C.36. What are the most serious problems you experience with your grid electricity?
V108	C36a_other	What are the most serious problems you experience with your grid electricity? (O	a. First C.36. What are the most serious problems you experience with your grid electricity? Other
V109	C36b	What are the second most serious problems you experience with your grid electric	b. Second C.36. What are the most serious problems you experience with your grid electricity?
V110	C36b_other	What are the second most serious problems you experience with your grid electric	b. Second C.36. What are the most serious problems you experience with your grid electricity? Other
V111	C37	In the last 12 months, did any household members die or have permanent limb (bod	C.37. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity?
V112	C38	Is the household connected to a mini-grid?	C.38. Is the household connected to a mini-grid?
V113	C39	What is the name of the local mini-grid company?	C.39. Is there a limit for the load and/or appliances you are allowed to power from this mini-grid?
V114	C40	Is there a limit for the load and/or appliances you are allowed to power from th	C.40. What is the name of the local mini-grid company?

ID	Name	Label	Question
V115	C41	How many years have you had this mini-grid connection?	C.41. How many years have you had this mini-grid connection?
V116	C42	How much did your household pay for the mini-grid connection fee?	C.42. How much did your household pay for the mini-grid connection fee?
V117	C43	How much did your household pay for the internal wiring?	C.43. How much did your household pay for the internal wiring?
V118	C44	How many weeks after you applied for the mini-grid connection did your household	C.44. How many weeks after you applied for the mini-grid connection did your household get connected?
V119	C45	How many weeks after you were connected were you able to use electricity in your	C.45. How many weeks after you were connected were you able to use electricity in your home?
V120	C46	Have you applied for an upgrade of service since you connected to the mini-grid?	C.46. Have you applied for an upgrade of service since you connected to the mini-grid?
V121	C47	Who receives the payment for your electricity service?	C.47. Who receives the payment for your electricity service?
V122	C47_other	Who receives the payment for your electricity service? (Other)	C.47. Who receives the payment for your electricity service? Other
V123	C48	Does your household have an electric meter?	C.48. Does your household have an electric meter?
V124	C49	Is this a pre-paid meter?	C.49. Is this a pre-paid meter?
V125	C50	Does your household share the electric meter?	C.50. Does your household share the electric meter?
V126	C52	How are you billed for electricity?	C.52. How are you billed for electricity?
V127	C53	What is the most common way you make your electricity bill payment?	C.53. What is the most common way you make your electricity bill payment?
V128	C54	Were you involved in setting the tariff for the mini-grid?	C.54. Were you involved in setting the tariff for the mini-grid?
V129	C55	How were you involved in the tariff setting?	C.55. How were you involved in the tariff setting?
V130	C56	Enumerator: If the respondent pays the energy company or has a record of the ele	
V131	C57	In the last month, how much did you spend on the electric bill?	C.57. In the last month, how much did you spend on the electric bill?
V132	C58	In the last month how much electricity did your household use?	C.58. In the last month how much electricity did your household use?
V133	C57b	In the last month, how much did you spend on the electricity?	
V134	C59	Is the quality of electricity service the same all year?	C.59. Is the quality of electricity service the same all year?
V135	C60_1	What are the worst months for service from the grid? (#1/13)	C.60. What are the worst months for service from the mini-grid?
V136	C60_2	What are the worst months for service from the grid? (#2/13)	C.60. What are the worst months for service from the mini-grid?
V137	C60_3	What are the worst months for service from the grid? (#3/13)	C.60. What are the worst months for service from the mini-grid?
V138	C60_4	What are the worst months for service from the grid? (#4/13)	C.60. What are the worst months for service from the mini-grid?
V139	C60_5	What are the worst months for service from the grid? (#5/13)	C.60. What are the worst months for service from the mini-grid?

ID	Name	Label	Question
V140	C60_6	What are the worst months for service from the grid? (#6/13)	C.60. What are the worst months for service from the mini-grid?
V141	C60_7	What are the worst months for service from the grid? (#7/13)	C.60. What are the worst months for service from the mini-grid?
V142	C60_8	What are the worst months for service from the grid? (#8/13)	C.60. What are the worst months for service from the mini-grid?
V143	C60_9	What are the worst months for service from the grid? (#9/13)	C.60. What are the worst months for service from the mini-grid?
V144	C60_10	What are the worst months for service from the grid? (#10/13)	C.60. What are the worst months for service from the mini-grid?
V145	C60_11	What are the worst months for service from the grid? (#11/13)	C.60. What are the worst months for service from the mini-grid?
V146	C60_12	What are the worst months for service from the grid? (#12/13)	C.60. What are the worst months for service from the mini-grid?
V147	C610		
V148	C61_C66_count	Ss-MTF-C.2-C61_C66_count	
V149	SETOFSsMTFC2C61_C66	Typical and Worst Months of Electricity	
V150	C67	What is your main back-up source of lighting during outages/blackouts of the gri	C.67. What is your main back-up source of lighting during outages/blackouts of the grid?
V151	C67_other	What is your main back-up source of lighting during outages/blackouts of the gri	C.67. What is your main back-up source of lighting during outages/blackouts of the grid? Other
V152	C68	What is your main back-up source of electricity for appliances (including mobile	C.68. What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid?
V153	C68_other	What is your main back-up source of electricity for appliances (including mobile	C.68. What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid? Other
V154	C69	How do you request for repairs in electricity service or file a complaint?	C.69. How do you request for repairs in electricity service or file a complaint?
V155	C69_other	How do you request for repairs in electricity service or file a complaint? (Othe	C.69. How do you request for repairs in electricity service or file a complaint? Other
V156	C70	When there is a blackout in your community, who do you usually approach for assi	C.70. When there is a blackout in your community, who do you usually approach for assistance?
V157	C70b		
V158	C71	The last time you asked for assistance, how many days after you contacted \${C70b	C.71. The last time you asked for assistance, how many days after you contacted [C.70 response] did they come to fix the problem?
V159	C72	In the last 12 months, did any of your appliances get damaged because the voltag	C.72. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?
V160	C73a	What are the most serious problems you experience with your mini grid electricit	a. First C.73. What are the most serious problems you experience with your mini grid electricity?
V161	C73a_other	What are the most serious problems you experience with your mini grid electricit	a. First C.73. What are the most serious problems you experience with your mini grid electricity? Other

ID	Name	Label	Question
V162	C73b	What are the second most serious problems you experience with your mini grid ele	b. Second C.73. What are the most serious problems you experience with your mini grid electricity?
V163	C73b_other	What are the second most serious problems you experience with your mini grid ele	b. Second C.73. What are the most serious problems you experience with your mini grid electricity? Other
V164	C74	In the last 12 months, did any household members die or have permanent limb (bod	C.74. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity?
V165	C75	In the last 12 months, did the household use a generator to supply electricity?	C.75. In the last 12 months, did the household use a generator to supply electricity?
V166	C76	How many generators does your household use to supply electricity? If multiple g	C.76. How many generators does your household use to supply electricity?
V167	C77	Do you share this generator with other households?	C.77. Do you share this generator with other households?
V168	C78	How many households are sharing electricity from this generator?	C.78. How many households are sharing electricity from this generator?
V169	C79	Enumerator Observation:What is the capacity of the MAIN generator? Read name pl	
V170	C80_1	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V171	C80_2	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V172	C80_3	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V173	C80_4	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V174	C80_5	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V175	C80_6	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V176	C80_7	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V177	C80_8	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V178	C80_9	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V179	C80_10	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V180	C80_11	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

ID	Name	Label	Question
V181	C80_12	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V182	C80_13	In the last 12 months, in which months did you use this generator or did you use	C.80. In the last 12 months, in which months did you use this generator or did you use it all year?
V183	C81	How many days per month did you typically use this generator?	C.81. How many days per month did you typically use this generator?
V184	C82_1	In the last 12 months, what did your household use this generator for? (#1/5)	C.82. In the last 12 months, what did your household use this generator for?
V185	C82_2	In the last 12 months, what did your household use this generator for? (#2/5)	C.82. In the last 12 months, what did your household use this generator for?
V186	C82_3	In the last 12 months, what did your household use this generator for? (#3/5)	C.82. In the last 12 months, what did your household use this generator for?
V187	C83	How many years have you used this generator?	C.83. How many years have you used this generator?
V188	C84	Does your household own the generator?	C.84. Does your household own the generator?
V189	C85	Who owns the generator?	C.85. Who owns the generator?
V190	C86	Do you rent the generator or use it for free?	C.86. Do you rent the generator or use it for free?
V191	C87	How do you pay for electricity services from the generator?	C.87. How do you pay for electricity services from the generator?
V192	C88	In the months that you use it, how much did you pay to use the generator each mo	C.88. In the months that you use it, how much did you pay to use the generator each month?
V193	C89	How much did you pay to purchase the generator?	C.89. How much did you pay to purchase the generator?
V194	C90	In the last 12 months, how much did you pay for repairs/parts/maintenance of the	C.90. In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator?
V195	C91	What fuel is used to power the generator?	C.91. What fuel is used to power the generator?
V196	C92	In the last 30 days, what was the total quantity of fuel used to power the gener	C.92. In the last 30 days, what was the total quantity of fuel used to power the generator?
V197	C93	Do you pay for the fuel used to power the generator?	C.93. Do you pay for the fuel used to power the generator?
V198	C94	In the last 30 days, how much did your household spend on fuel for this generato	C.94. In the last 30 days, how much did your household spend on fuel for this generator?
V199	C95	Is the generator the household's main source of electricity?	C.95. Is the generator the household's main source of electricity?
V200	C96	Are there certain months/seasons of the year when less fuel is available to powe	C.96. Are there certain months/seasons of the year when less fuel is available to power the generator?
V201	C97_1	What are the worst months of fuel availability for the generator? (#1/13)	C.97. What are the worst months of fuel availability for the generator?
V202	C97_2	What are the worst months of fuel availability for the generator? (#2/13)	C.97. What are the worst months of fuel availability for the generator?

ID	Name	Label	Question
V203	C97_3	What are the worst months of fuel availability for the generator? (#3/13)	C.97. What are the worst months of fuel availability for the generator?
V204	C97_4	What are the worst months of fuel availability for the generator? (#4/13)	C.97. What are the worst months of fuel availability for the generator?
V205	C97_5	What are the worst months of fuel availability for the generator? (#5/13)	C.97. What are the worst months of fuel availability for the generator?
V206	C97_6	What are the worst months of fuel availability for the generator? (#6/13)	C.97. What are the worst months of fuel availability for the generator?
V207	C97_7	What are the worst months of fuel availability for the generator? (#7/13)	C.97. What are the worst months of fuel availability for the generator?
V208	C97_8	What are the worst months of fuel availability for the generator? (#8/13)	C.97. What are the worst months of fuel availability for the generator?
V209	C97_9	What are the worst months of fuel availability for the generator? (#9/13)	C.97. What are the worst months of fuel availability for the generator?
V210	C982		
V211	C98_100_count	Ss-MTF-C.3-C98_100_count	
V212	SETOFSsMTFC3C98_100	Worst Months of Electricity	
V213	C101	In the last 12 months, did any of your appliances get damaged because the voltag	C.101. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?
V214	C102a	What are the most serious problems you experience with the generator?	a. First C.102. What are the most serious problems you experience with the generator?
V215	C102a_other	What are the most serious problems you experience with the generator? (Other)	a. First C.102. What are the most serious problems you experience with the generator? Other
V216	C102b	What are the second most serious problems you experience with the generator?	b. Second C.102. What are the most serious problems you experience with the generator?
V217	C103	In the last 12 months, did any household members die or have permanent limb (bod	C.103. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator?
V218	C104	In the last 12 months, did the household use any rechargeable batteries, such as	C.104. In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity?
V219	C105_1	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V220	C105_2	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V221	C105_3	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V222	C105_4	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V223	C105_5	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V224	C105_6	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

ID	Name	Label	Question
V225	C105_7	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V226	C105_8	In the last 12 months, in which months did you use rechargeable batteries or did	C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?
V227	C106_1	In the last 12 months, what did your household use rechargeable batteries for? (	C.106. In the last 12 months, what did your household use rechargeable batteries for?
V228	C106_2	In the last 12 months, what did your household use rechargeable batteries for? (	C.106. In the last 12 months, what did your household use rechargeable batteries for?
V229	C107	Does your household have an inverter that allows you to use AC appliances?	C.107. Does your household have an inverter that allows you to use AC appliances?
V230	C108	What is the capacity of the inverter?	C.108. What is the capacity of the inverter?
V231	C109	What is the total number of rechargeable batteries that you use in a typical mon	C.109. What is the total number of rechargeable batteries that you use in a typical month?
V232	SETOFSSMTFC4C110_C113	Details of each rechargeable battery	
V233	C114	Do you pay to recharge the battery?	C.114. Do you pay to recharge the battery?
V234	C115	How much does your household spend in a typical month to recharge the batteries	C.115. How much does your household spend in a typical month to recharge the batteries (in total)?
V235	C116	What is the electricity source used to recharge the battery?	C.116. What is the electricity source used to recharge the battery?
V236	C116_other	What is the electricity source used to recharge the battery? (Other)	C.116. What is the electricity source used to recharge the battery? Other
V237	C116b		
V238	C117	Is battery recharging limited by availability of electricity from \${C116b}?	C.117. Is battery recharging limited by availability of electricity from [SOURCE FROM C.116]?
V239	C118	How many hours can you use rechargeable batteries for electricity supply each da	C.118. How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to?
V240	C119	How many hours do you actually use rechargeable batteries for electricity supply	C.119. How many hours do you actually use rechargeable batteries for electricity supply each day?
V241	C120a	What is the first most serious problems you experience with the rechargeable bat	a. First C.120. What are the most serious problems you experience with the rechargeable batteries?
V242	C120b	What is the second most serious problems you experience with the rechargeable ba	b. Second C.120. What are the most serious problems you experience with the rechargeable batteries?
V243	C121	In the last 12 months, did any household members die or have permanent limb (bod	C.121. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the rechargeable batteries?
V244	C122_1	In the last 12 months, did the household use any of the following solar based de	
V245	C5C122_1	How many total solar based devises do you have (of any type)?	

ID	Name	Label	Question
V246	C123	How many solar home systems (SHS) do you have?	C.123. How many solar home systems (SHS) do you have?
V247	C124	How many solar lighting systems do you have?	C.124. How many solar lighting systems do you have?
V248	C125	How many solar lanterns do you have?	C.125. How many solar lanterns do you have?
V249	C126_145_count	Ss-MTF-C.5-C126_145_count	
V250	SETOFSsMTFC5C126_145	Solar Based Devices	
V251	C146	Are there certain months/seasons every year when the service is not as strong fr	C.146. Are there certain months/seasons every year when the service is not as strong from [DEVICE]?
V252	C147_1	What are the worst months for service from your main solar device? (#1/14)	C.147. What are the worst months for service from [DEVICE]?
V253	C147_2	What are the worst months for service from your main solar device? (#2/14)	C.147. What are the worst months for service from [DEVICE]?
V254	C147_3	What are the worst months for service from your main solar device? (#3/14)	C.147. What are the worst months for service from [DEVICE]?
V255	C147_4	What are the worst months for service from your main solar device? (#4/14)	C.147. What are the worst months for service from [DEVICE]?
V256	C147_5	What are the worst months for service from your main solar device? (#5/14)	C.147. What are the worst months for service from [DEVICE]?
V257	C147_6	What are the worst months for service from your main solar device? (#6/14)	C.147. What are the worst months for service from [DEVICE]?
V258	C147_7	What are the worst months for service from your main solar device? (#7/14)	C.147. What are the worst months for service from [DEVICE]?
V259	C147_8	What are the worst months for service from your main solar device? (#8/14)	C.147. What are the worst months for service from [DEVICE]?
V260	C148c		
V261	C148_150_count	Ss-MTF-C.5-C148_150_count	
V262	SETOFSsMTFC5C148_150	Worst Months of Electricity	
V263	C151	In the last 12 months, did any household members die or have permanent limb (bod	C.151. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the [DEVICE]?
V264	C152	Are there any appliances you do not have that you would like to have?	C.152. Is there any device you do not have that you would like to have?
V265	C153_1	What appliances would you most like to have? (#1/9)	C.153. What devices would you most like to have?
V266	C153_2	What appliances would you most like to have? (#2/9)	C.153. What devices would you most like to have?
V267	C153_3	What appliances would you most like to have? (#3/9)	C.153. What devices would you most like to have?
V268	C153_4	What appliances would you most like to have? (#4/9)	C.153. What devices would you most like to have?
V269	C153_5	What appliances would you most like to have? (#5/9)	C.153. What devices would you most like to have?
V270	C153_6	What appliances would you most like to have? (#6/9)	C.153. What devices would you most like to have?
V271	C153_7	What appliances would you most like to have? (#7/9)	C.153. What devices would you most like to have?
V272	C153_other	What appliances would you most like to have? (Other)	C.153. What devices would you most like to have? Other

ID	Name	Label	Question
V273	C154	Overall, how satisfied are you with the service provided by the main solar device	C.154. Overall, how satisfied are you with the service provided by the main solar device?
V274	C155	In what year did you get your first solar device?	C.155. In what year did you get your first solar device?
V275	C156	Has solar been your main source of lighting/electricity since \${C155}?	C.156. Has solar been your main source of lighting/electricity since [YEAR in C.155]?
V276	C157	What was your main source of lighting/electricity when it was not a solar device	C.157. What was your main source of lighting/electricity when it was not a solar device?
V277	C157_other	What was your main source of lighting/electricity when it was not a solar device	C.157. What was your main source of lighting/electricity when it was not a solar device? Other
V278	C158	Compared to the first time you used solar lighting, do you currently...	C.158. Compared to the first time you used solar lighting, do you currently...
V279	C159_1	What appliances do you use today that you did not use with your first solar light	C.159. What appliances do you use today that you did not use with your first solar lighting device?
V280	C159_other	What appliances do you use today that you did not use with your first solar light	C.159. What appliances do you use today that you did not use with your first solar lighting device? Other
V281	C160	Of all the sources that you mentioned above, which is the source that you use the most in your household?	C.160. Of all the sources that you mentioned above, which is the source that you use the most in your household?
V282	C160_other	Of all the sources that you mentioned above, which is the source that you use the most in your household?	C.160. Of all the sources that you mentioned above, which is the source that you use the most in your household? Other
V283	C161	How many mobile phones do the household members own in total?	C.161. How many mobile phones do the household members own in total?
V284	C163	Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?	C.163. Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?
V285	C164	Can you charge at least one mobile phone to full charge everyday inside your dwelling?	C.164. Can you charge at least one mobile phone to full charge everyday inside your dwelling?
V286	C165	Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?	C.165. Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?
V287	C166	How many mobile phones of your household members do you charge outside your dwelling?	C.166. How many mobile phones of your household members do you charge outside your dwelling?
V288	C167	Do members of your household have to go more than one-half a kilometer (walk more than 5 minutes) to charge your mobile phones outside your dwelling?	C.167. Do members of your household have to go more than one-half a kilometer (walk more than 5 minutes) to charge your mobile phones outside your dwelling?
V289	C168	How much does your household spend each month (in total) on charging the mobile phone(s) outside of your dwelling?	C.168. How much does your household spend each month (in total) on charging the mobile phone(s) outside of your dwelling?
V290	C169_1	Select the appliances available in the household: (#1/40)	Appliance type
V291	C169_2	Select the appliances available in the household: (#2/40)	Appliance type

ID	Name	Label	Question
V292	C169_3	Select the appliances available in the household: (#3/40)	Appliance type
V293	C169_4	Select the appliances available in the household: (#4/40)	Appliance type
V294	C169_5	Select the appliances available in the household: (#5/40)	Appliance type
V295	C169_6	Select the appliances available in the household: (#6/40)	Appliance type
V296	C169_7	Select the appliances available in the household: (#7/40)	Appliance type
V297	C169_8	Select the appliances available in the household: (#8/40)	Appliance type
V298	C169_9	Select the appliances available in the household: (#9/40)	Appliance type
V299	C169_10	Select the appliances available in the household: (#10/40)	Appliance type
V300	C169_11	Select the appliances available in the household: (#11/40)	Appliance type
V301	C169_12	Select the appliances available in the household: (#12/40)	Appliance type
V302	C169_13	Select the appliances available in the household: (#13/40)	Appliance type
V303	C169_14	Select the appliances available in the household: (#14/40)	Appliance type
V304	C169_15	Select the appliances available in the household: (#15/40)	Appliance type
V305	C169_16	Select the appliances available in the household: (#16/40)	Appliance type
V306	C169_17	Select the appliances available in the household: (#17/40)	Appliance type
V307	C169_18	Select the appliances available in the household: (#18/40)	Appliance type
V308	C169_other	Select the appliances available in the household: (Other)	Appliance type
V309	C169_l_cnt		
V310	C169_rpt_count	Ss-MTF-C169_rpt_count	
V311	SETOFsMTFC169_rpt	Lighting and Appliances	
V312	D2	Enumerator: Scan the household roster barcode to register the respondent ID for	
V313	rand_once	Generates a random number between 0 and 100 to randomly select % of connection	
V314	rand_choice	Using rand_once, calculates percentage of connection fee to use for WTP	
V315	CF	Multiplies random percentage by Connection Fee	
V316	D1	The randomly assigned grid connection fee is US\$ for this interview.	
V317	D3	Would you be willing to pay US\$ \${D1} for an electricity connection?	D.3. Would you be willing to pay \${CF} for an electricity connection?
V318	D4calc	Calculates monthly payment	

ID	Name	Label	Question
V319	D4	Would you be willing to pay US\$ \${D1} for an electricity connection, if you were	D.4. Would you be willing to pay \${CF} for an electricity connection, if you were given 3 months to make the payment?
V320	D5	Why would you not accept the offer?	D.5. Why would you not accept the offer?
V321	D6calc	Calculates 6 month payment	
V322	D6	Would you be willing to pay US\$ \${D1} for an electricity connection, if you were	D.6. Would you be willing to pay \${CF} for an electricity connection, if you were given 6 months to make the payment?
V323	D7	Why would you not accept the offer?	D.7. Why would you not accept the offer?
V324	D8calc	Calculates 12 month payment	
V325	D8	Would you be willing to pay US\$ \${D1} for an electricity connection, if you were	D.8. Would you be willing to pay \${CF} for an electricity connection, if you were given 12 months to make the payment?
V326	D9	Why would you not accept the offer?	D.9. Why would you not accept the offer?
V327	D10	If the connection fee were waived, would you get a grid connection?	D.10. If the connection fee were waived, would you get a grid connection?
V328	D11	Why would you not accept the offer?	D.11. Why would you not accept the offer?
V329	D12	How much do you think it would cost to do all the internal electrical wiring in	D.12. How much do you think it would cost to do all the internal electrical wiring in your house?
V330	D13	Think about the amount you would need to spend each month for electricity, not t	D.13. ..Think about the amount you would need to spend each month for electricity, not the connection fee. How much would you need to spend each month for electricity?
V331	E2	Enumerator: Scan the household roster barcode to register the respondent ID for	
V332	rand_once_s1	Random number generator	
V333	rand_choice_s1	Calculates percentage of solar devices cost to reflect in WTP	
V334	rand_once_s2	Random number generator	
V335	rand_choice_s2	Using rand_once_s2, calculates which Tier of solar device to choose	
V336	CF_s	Calculates cost of solar device based on random Teir and % calculated	
V337	E1	Rounds cost of CF_s	
V338	Dscal	Displays calculation of specific solar devise used	
V339	E3	Would you be willing to pay US\$ \${E1} for this solar device?	E.3. Would you be willing to pay \${CF} for this solar device?
V340	E4calc	6 months replacement cost	
V341	E4	Would you be willing to pay US\$ \${E1} for this solar device, if you were given 6	E.4. Would you be willing to pay \${CF} for this solar device, if you were given 6 months to make the payment?
V342	E5	Why would you not accept the offer?	E.5. Why would you not accept the offer?

ID	Name	Label	Question
V343	E6calc	12 months repayment cost	
V344	E6	Would you be willing to pay US\$ \${E1} for this solar device, if you were given 1	E.6. Would you be willing to pay \${CF} for this solar device, if you were given 12 months to make the payment?
V345	E7	Why would you not accept the offer?	E.7. Why would you not accept the offer?
V346	E8calc	24 months repayment cost	
V347	E8	Would you be willing to pay US\$ \${E1} for this solar device, if you were given 2	E.8. Would you be willing to pay \${CF} for this solar device, if you were given 24 months to make the payment? This means that each month you will pay \${CF/24} per month for 24 months.
V348	E9	Why would you not accept the offer?	E.9. Why would you not accept the offer?
V349	F1	Enumerator: Scan the household roster barcode to register the respondent ID for	F.1. Enumerator: Record Respondent ID for this section
V350	F3_1	Select all that your household used in the last 12 months: (#1/7)	F.3. In the last 12 months, did you use [NAME FROM]
V351	F3_2	Select all that your household used in the last 12 months: (#2/7)	F.3. In the last 12 months, did you use [NAME FROM]
V352	F3_other	Select all that your household used in the last 12 months: (Other)	F.3. In the last 12 months, did you use [NAME FROM]. Other
V353	F3_I_cnt		
V354	F_rpt_count	Ss-MTF-F-F_rpt_count	
V355	SETOFsMTFFF_rpt	Kerosene, Fuel-Based and Candle Lighting	
V356	F15	What is the main source of lighting the children who are currently enrolled in s	F.15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework?
V357	F15_other	What is the main source of lighting the children who are currently enrolled in s	F.15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework? Other
V358	G0	In the last 12 months, did you use dry cell batteries to power any lights, radio	
V359	G1	Enumerator: Scan the household roster barcode to register the respondent ID for	
V360	G3_1	In the last 12 months, did you use dry cell batteries to power...? (#1/6)	G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]
V361	G3_2	In the last 12 months, did you use dry cell batteries to power...? (#2/6)	G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]
V362	G3_3	In the last 12 months, did you use dry cell batteries to power...? (#3/6)	G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]
V363	G3_other	In the last 12 months, did you use dry cell batteries to power...? (Other)	G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]. Other
V364	G3_I_cnt		
V365	G3_rpt_count	Ss-MTF-G-G3_rpt_count	
V366	SETOFsMTFGG3_rpt	Dry cells battery lighting sources	

ID	Name	Label	Question
V367	H1	Enumerator: Scan the household roster barcode to register the respondent ID for	
V368	H2_1	In the last 12 months, select all the fuel consumed by the household: (#1/17)	H.2. Fuel Type
V369	H2_2	In the last 12 months, select all the fuel consumed by the household: (#2/17)	H.2. Fuel Type
V370	H2_3	In the last 12 months, select all the fuel consumed by the household: (#3/17)	H.2. Fuel Type
V371	H2_l_cnt		
V372	H2_rpt_count	Ss-MTF-H2_rpt_count	
V373	SETOFsSMTFH2_rpt	Household Fuel Consumption	
V374	I1	Enumerator: Scan the household roster barcode to register the respondent ID for	
V375	I3_1	In the last 12 months, which cookstove did you household use for preparing meals	I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only?
V376	I3_2	In the last 12 months, which cookstove did you household use for preparing meals	I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only?
V377	I3_other	In the last 12 months, which cookstove did you household use for preparing meals	I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only? Other
V378	I3_l_cnt		
V379	I3_rpt_count	Ss-MTF-I-I3_rpt_count	
V380	SETOFsSMTFI3_rpt	Cookstoves	
V381	I34	Enumerator: based on responses to I.15 and I.18 does the HH use any solid fuels	
V382	I35	Record the rough shape of the cooking space	I.35. Record the rough shape of the cooking space
V383	I36a	Record the dimensions of the cooking space in heel-to-toe paces (1st side)	I.36. Record the dimensions of the cooking space in heel-to-toe paces. (1st side)
V384	I36b	Record the dimensions of the cooking space in heel-to-toe paces (2nd side)	I.36. Record the dimensions of the cooking space in heel-to-toe paces. (2nd side)
V385	I37	Record the type of roof covering the cooking space	I.37. Record the type of roof covering the cooking space
V386	I38	Estimate the height of the highest point of the ceiling relative to your own height	I.38. Estimate the height of the highest point of the ceiling relative to your own height
V387	I39	How many doors and windows (opening to the outside) does the cooking space have?	I.39. How many doors and windows (opening to the outside) does the cooking space have?
V388	I40a	Can you show me the cookstove you spend the most time cooking on?	I.40. Can you show me the cookstove you spend the most time cooking on?
V389	I40a_other	Can you show me the cookstove you spend the most time cooking on? (Other)	I.40. Can you show me the cookstove you spend the most time cooking on? Other
V390	I40b	This is the MAIN cookstove, take a picture of the stove and ask the following questions	
V391	I40c	In the last 12 months, what is the most used fuel type you used on this main cookstove?	
V392	I40d	In the last 12 months, what is the second most used fuel type you used on this main cookstove?	

ID	Name	Label	Question
V393	I41a	How much do you spend on the most used for this stove in the last month/in a typ	I.41. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove?
V394	I41b	How much do you spend on the second most used for this stove in the last month/i	I.41. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove?
V395	J1	Do you heat water for washing (either for washing dishes and clothes or for bath	J.1. Do you heat water for washing (either for washing dishes and clothes or for bathing)?
V396	J2	What is the main source you use to heat water?	J.2. What is the main source you use to heat water?
V397	J4	Do you heat your house?	J.4. Do you heat your house?
V398	J5	What is the main source you use to heat your house?	J.5. What is the main source you use to heat your house?
V399	J6	What is the MAIN fuel you use in this separate solid fuel stove?	J.6. What is the MAIN fuel you use in this separate solid fuel stove?
V400	K_1	CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and	
V401	K2	Enumerator: Scan the household roster barcode to register the respondent ID for	
V402	Krand_once_c1	Random number generator	
V403	Krand_choice_c1	Calculates percentage of IC cost to reflect in WTP	
V404	Krand_once_c2	Random number generator	
V405	Krand_choice_c2	Using Krand_once_s2, calculates which type of IC to choose"	
V406	KCF_cc	rounding of cost of charcoal IC	
V407	KCF_cw	Rounding of cost of wood IC	
V408	K1	Calculates whether charcoal or wood IC is selected	
V409	KDcs	Based on K1, selects label of IC used	
V410	K3	Would you be willing to pay US\$ \${K1} for this \${Dcs}?	K.3. Would you be willing to purchase this cookstove at [CAPI: Price]?
V411	K4calc	6 month IC payment amount	
V412	K4	Would you be willing to pay US\$ \${K1} for this cookstove, if you were given 6 mo	K.4. Would you be willing to pay \${CF} for this stove, if you were given 6 months to make the payment? This means that each month you will pay \${CF/6} per month for 6 months.
V413	K5	Why would you not accept the offer?	K.5. Why would you not accept the offer?
V414	K5_other	Why would you not accept the offer? (Other)	K.5. Why would you not accept the offer? Other
V415	K6calc	12 month IC payment cost	
V416	K6	Would you be willing to pay US\$ \${K1} for this cookstove, if you were given 12 mo	K.6. Would you be willing to pay \${CF} for this solar device, if you were given 12 months to make the payment? This means that each month you will pay \${CF/12} per month for 12 months.
V417	K7	Why would you not accept the offer?	K.7. Why would you not accept the offer?

ID	Name	Label	Question
V418	K7_other	Why would you not accept the offer? (Other)	K.7. Why would you not accept the offer? Other
V419	K8calc	24 month IC payment cost	
V420	K8	Would you be willing to pay US\$ $\{K1\}$ for this cookstove, if you were given 24 m	K.8. Would you be willing to pay $\{CF\}$ for this solar device, if you were given 24 months to make the payment? This means that each month you will pay $\{CF/24\}$ per month for 24 months.
V421	K9	Why would you not accept the offer?	K.9. Why would you not accept the offer?
V422	K9_other	Why would you not accept the offer? (Other)	K.9. Why would you not accept the offer? Other
V423	L1	Cereals & cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy	L.1. Cereals & cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy staples (e.g.: cassava, plantain, yam, cocoyam)
V424	L2	Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans)	L.2. Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans)
V425	L3	Milk & milk products (e.g.: powder, tinned, fresh)	L.3. Milk & milk products (e.g.: powder, tinned, fresh, )
V426	L4	Edible oil (e.g.: palm oil, groundnut oil, coconut oil)	L.4. Edible oil (e.g.: palm oil, groundnut oil, coconut oil)
V427	L5	Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (	L.5. Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (e.g.: bananas, coconut, pineapple, mango, orange, pawpaw)
V428	L6	Egg, fish (smoked/fresh), meat, & poultry	L.6. Egg, fish (smoked/fresh), meat, & poultry
V429	L7	Sugar	L.7. Sugar
V430	L8	Other food items (e.g, pepper, salt, spices, butter, jam, bread, groundnut paste	L.8 Other food items (e.g, pepper, salt, spices, butter, jam, bread, groundnut paste, processed foods, etc.). Include all processed foods not prepared by household using raw ingredients
V431	L9	Meals/food bought outside home Include any meals purchased from outside that ar	L.9. Meals/food bought outside home Include any meals purchased from outside that are not prepared by the household
V432	L10	Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo)	L.10. Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo)
V433	L11	Alcohol, tobacco and cigarettes	L.11. Alcohol, tobacco and cigarettes
V434	_30daysL12	Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/	L.12. Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/chemist, traditional/herbal medicine)
V435	_30daysL13	Soaps, disinfectants and cleaning supplies; cosmetics and toiletries	L.13. Soaps, disinfectants and cleaning supplies; cosmetics and toiletries
V436	_30daysL14	Water supply for drinking and other uses (tanker services, pipe-borne, metered,	L.14. Water supply for drinking and other uses (tanker services, pipe-borne, metered, bore-hole, well, purchased water)
V437	_30daysL15	Mobile phone top-up	L.15. Mobile phone top-up
V438	_30daysL16	Internet, landline, dish, cable, and other household communication	L.16. Internet, land phone, dish, cable, and other household communication

ID	Name	Label	Question
V439	_30daysL17	House Rent	L.17. House Rent
V440	_30daysL18	Transportation costs (fuel for own vehicles, cost of public transportation, buse	L.18. Transportation costs (fuel for own vehicles, cost of public transportation, buses, taxis, motorcycle)
V441	_30daysL19	Other recurring monthly expenditure (wage of domestic workers, entertainment, et	L.19. Other recurring monthly expenditure (wage of domestic workers, entertainment, etc.)
V442	_1yearL20	School fees and other educational expenses, Include uniform, PTA dues, books, tu	L.20. School fees and other educational expenses Include uniform, PTA dues, books, tutor, school supplies, transport, food, etc.
V443	_1yearL21	Clothing, shoes, and accessories	L.21. Clothing, shoes, and accessories
V444	_1yearL22	Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony,	L.22. Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony, engagement). Only include costs to host celebration or to give donations/gifts for attending celebrations.
V445	_1yearL23	Gifts and donations (e.g.: donation to church made by the household, tithes), O	L.23. Gifts and donations (e.g.: donation to church made by the household, tithes). Only include gifts and donations not already included in L.22
V446	_1yearL24	Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hosp	L.24. Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hospital, public hospital, traditional healer). Do not include costs paid for by insurance
V447	_1yearL25	Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpe	L.25. Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpets)
V448	_1yearL26	Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labo	L.26. Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labor for repairs, sewerage removal)
V449	_1yearL27	Utensils & kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, bucke	L.27. Utensils & kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, buckets)
V450	_1yearL28	Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satell	L.28. Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satellite TV, MP3 player, video game player, pen drives, other digital accessories, Computer or laptop purchase
V451	_1yearL29	Appliances & tools (e.g.: electric iron, electric fans, refrigerators, lanterns,	L.29. Appliances & tools (e.g.: electric iron, electric fans, refrigerators, lanterns, brooms)
V452	_1yearL30	Vehicles & motorcycle & bicycle (purchase or repair of own car/moto/ car battery	L.30. Vehicles & motorcycle & bicycle (purchase or repair of own car/moto/ car battery)
V453	_1yearL31	Remittance sent to family members and relatives	L.31. Remittance sent to family members and relatives
V454	_1yearL32	Losses due to theft, robbery, accidents, natural disasters, etc.	L.32. Losses due to theft, robbery, accidents, natural disasters, etc.
V455	_1yearL33	Other major expenses not yet covered (specify)	L.33. Other major expenses not yet covered (specify)
V456	_1yearL34	Please specify the major expense listed:	

ID	Name	Label	Question
V457	M1	Do you own any of the following household assets? (#1/15)	Assets
V458	M_l_cnt		
V459	M_rpt_count	Ss-MTF-M_rpt_count	
V460	SETOFSsMTFM_rpt	Infrastructure and Services	
V461	N1a	Do you own agricultural land (including cultivated land, resting land, preparati	
V462	N1b	What is the unit of measure you would use to size the land?	
V463	N1bjr		
V464	N1c	What is the total size of the land in \${N1bjr}?	
V465	N1d	If you were to sell, what is the total value?	
V466	N2a	Do you own Homestead land?	
V467	N2b	What is the unit of measure you would use to size the land?	
V468	N2bjr		
V469	N2c	What is the total size of the land in \${N2bjr}?	
V470	N2d	If you were to sell, what is the total value?	
V471	N3a	Do you own non-agricultural land?	
V472	N3b	What is the unit of measure you would use to size the land?	
V473	N3bjr		
V474	N3c	What is the total size of the land in \${N3bjr}?	
V475	N3d	If you were to sell, what is the total value?	
V476	N4a	Do you own any buildings, structures, shops, or warehouses, etc?	
V477	N4b	What is the unit of measure you would use to size the structures?	
V478	N4bjr		
V479	N4c	What is the total size of the structures in \${N4bjr}?	
V480	N4d	If you were to sell, what is the total value?	
V481	O1a	In the last 12 months, have you been affected by failure/loss of business includ	
V482	O1b	Who was affected by the event?	
V483	O2a	In the last 12 months, have you been affected by loss of employment due to impri	
V484	O2b	Who was affected by the event?	
V485	P1	Respondent ID	
V486	P2	Does your neighborhood have any form of street lighting?	
V487	P3	How satisfied are you by the brightness of the street lighting service in your n	

ID	Name	Label	Question
V488	P4_1	What do you think are the risks/problems with street lighting in your neighborho	
V489	P4_2	What do you think are the risks/problems with street lighting in your neighborho	
V490	P4_3	What do you think are the risks/problems with street lighting in your neighborho	
V491	P4_4	What do you think are the risks/problems with street lighting in your neighborho	
V492	P5	Do you have a light that you could turn on at night to provide light outside you	
V493	P6	How many hours do you turn it on each night after it becomes dark?	
V494	Q1Q1a	Women (Age 15 yrs and older) -	
V495	Q1Q1b	Girls (Under age 15 years) -	
V496	Q1Q1c	Men (Age 15 yrs and older):	
V497	Q1Q1d	Boys (Under age 15 years):	
V498	Q2Q2a	Women (Age 15 yrs and older) -	
V499	Q2Q2b	Girls (Under age 15 years) -	
V500	Q2Q2c	Men (Age 15 yrs and older):	
V501	Q2Q2d	Boys (Under age 15 years):	
V502	Q3Q3a	Women (Age 15 yrs and older) -	
V503	Q3Q3b	Girls (Under age 15 years) -	
V504	Q3Q3c	Men (Age 15 yrs and older):	
V505	Q3Q3d	Boys (Under age 15 years):	
V506	Q4Q4a	Women (Age 15 yrs and older) -	
V507	Q4Q4b	Girls (Under age 15 years) -	
V508	Q4Q4c	Men (Age 15 yrs and older):	
V509	Q4Q4d	Boys (Under age 15 years):	
V510	Q5Q5a	Women (Age 15 yrs and older) -	
V511	Q5Q5b	Girls (Under age 15 years) -	
V512	Q5Q5c	Men (Age 15 yrs and older):	
V513	Q5Q5d	Boys (Under age 15 years):	
V514	Q6Q6a	Women (Age 15 yrs and older) -	
V515	Q6Q6b	Girls (Under age 15 years) -	
V516	Q6Q6c	Men (Age 15 yrs and older):	
V517	Q6Q6d	Boys (Under age 15 years):	
V518	Q7Q7a	Women (Age 15 yrs and older) -	
V519	Q7Q7b	Girls (Under age 15 years) -	
V520	Q7Q7c	Men (Age 15 yrs and older):	
V521	Q7Q7d	Boys (Under age 15 years):	
V522	Q8Q8a	Women (Age 15 yrs and older) -	
V523	Q8Q8b	Girls (Under age 15 years) -	
V524	Q8Q8c	Men (Age 15 yrs and older):	
V525	Q8Q8d	Boys (Under age 15 years):	
V526	Q9Q9a	Women (Age 15 yrs and older) -	
V527	Q9Q9b	Girls (Under age 15 years) -	
V528	Q9Q9c	Men (Age 15 yrs and older):	

ID	Name	Label	Question
V529	Q9Q9d	Boys (Under age 15 years):	
V530	Q10Q10a	Women (Age 15 yrs and older) -	
V531	Q10Q10b	Girls (Under age 15 years) -	
V532	Q10Q10c	Men (Age 15 yrs and older):	
V533	Q10Q10d	Boys (Under age 15 years):	
V534	Q11Q11a	Women (Age 15 yrs and older) -	
V535	Q11Q11b	Girls (Under age 15 years) -	
V536	Q11Q11c	Men (Age 15 yrs and older):	
V537	Q11Q11d	Boys (Under age 15 years):	
V538	Q12Q12a	Women (Age 15 yrs and older) -	
V539	Q12Q12b	Girls (Under age 15 years) -	
V540	Q12Q12c	Men (Age 15 yrs and older):	
V541	Q12Q12d	Boys (Under age 15 years):	
V542	R1R1a	Women (Age 15 yrs and older):	
V543	R1R1b	Girls (Under age 15 years):	
V544	R1R1c	Men (Age 15 yrs and older):	
V545	R1R1d	Boys (Under age 15 years):	
V546	R1R1e	Young Children (0-4 years)	
V547	R2R2a	Women (Age 15 yrs and older):	
V548	R2R2b	Girls (Under age 15 years):	
V549	R2R2c	Men (Age 15 yrs and older):	
V550	R2R2d	Boys (Under age 15 years):	
V551	R2R2e	Young Children (0-4 years)	
V552	R3R3a	Women (Age 15 yrs and older):	
V553	R3R3b	Girls (Under age 15 years):	
V554	R3R3c	Men (Age 15 yrs and older):	
V555	R3R3d	Boys (Under age 15 years):	
V556	R3R3e	Young Children (0-4 years)	
V557	R4R4a	Women (Age 15 yrs and older):	
V558	R4R4b	Girls (Under age 15 years):	
V559	R4R4c	Men (Age 15 yrs and older):	
V560	R4R4d	Boys (Under age 15 years):	
V561	R4R4e	Young Children (0-4 years)	
V562	R5R5a	Women (Age 15 yrs and older):	
V563	R5R5b	Girls (Under age 15 years):	
V564	R5R5c	Men (Age 15 yrs and older):	
V565	R5R5d	Boys (Under age 15 years):	
V566	R5R5e	Young Children (0-4 years)	
V567	R6R6a	Women (Age 15 yrs and older):	
V568	R6R6b	Girls (Under age 15 years):	
V569	R6R6c	Men (Age 15 yrs and older):	
V570	R6R6d	Boys (Under age 15 years):	
V571	R6R6e	Young Children (0-4 years)	
V572	R7R7a	Women (Age 15 yrs and older):	
V573	R7R7b	Girls (Under age 15 years):	

ID	Name	Label	Question
V574	R7R7c	Men (Age 15 yrs and older):	
V575	R7R7d	Boys (Under age 15 years):	
V576	R7R7e	Young Children (0-4 years)	
V577	R8R8a	Women (Age 15 yrs and older):	
V578	R8R8b	Girls (Under age 15 years):	
V579	R8R8c	Men (Age 15 yrs and older):	
V580	R8R8d	Boys (Under age 15 years):	
V581	R8R8e	Young Children (0-4 years)	
V582	R9R9a	Women (Age 15 yrs and older):	
V583	R9R9b	Girls (Under age 15 years):	
V584	R9R9c	Men (Age 15 yrs and older):	
V585	R9R9d	Boys (Under age 15 years):	
V586	R9R9e	Young Children (0-4 years)	
V587	R10R10a	Women (Age 15 yrs and older):	
V588	R10R10b	Girls (Under age 15 years):	
V589	R10R10c	Men (Age 15 yrs and older):	
V590	R10R10d	Boys (Under age 15 years):	
V591	R10R10e	Young Children (0-4 years)	
V592	R11R11a	Women (Age 15 yrs and older):	
V593	R11R11b	Girls (Under age 15 years):	
V594	R11R11c	Men (Age 15 yrs and older):	
V595	R11R11d	Boys (Under age 15 years):	
V596	R11R11e	Young Children (0-4 years)	
V597	T1	Visiting parents/relatives/friends within or outside the village?	T.1. Visiting parents/relatives/friends within or outside the village
V598	T1_other	Visiting parents/relatives/friends within or outside the village? (Other)	T.1. Visiting parents/relatives/friends within or outside the village. Other
V599	T2	Going to markets/banks/commercial centers/places of work.	T.2. Going to markets/banks/commercial centers/places of work.
V600	T2_other	Going to markets/banks/commercial centers/places of work. (Other)	T.2. Going to markets/banks/commercial centers/places of work. Other
V601	T3	Going outside the village	T.3. Going outside the village
V602	T3_other	Going outside the village (Other)	T.3. Going outside the village. Other
V603	T4_1	If you are a member of a women's group, which type of group are you a member of/	T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?
V604	T4_2	If you are a member of a women's group, which type of group are you a member of/	T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?
V605	T4_3	If you are a member of a women's group, which type of group are you a member of/	T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?
V606	T4_4	If you are a member of a women's group, which type of group are you a member of/	T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?

ID	Name	Label	Question
V607	T4_other	If you are a member of a women's group, which type of group are you a member of/	T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to? Other.
V608	T5	What do you think are the main constraints women face in participating in organi	T.5. What do you think are the main constraints women face in participating in organizations or activities in the area?
V609	T6	Are you a member of any community/village electrification committee?	T.6. Are a member of the village electrification committee?
V610	T7	How many times do you meet in a month?	T.7. How many times do you meet in a month?
V611	T8	Do you own a bank account?	T.8. Do you own a bank account?
V612	metadatasur_result	Final result of the survey	
V613	metadataend		
V614	metadatatoday	-	
V615	metadatadeviceid	-	
V616	nd_1		
V617	nd_2		
V618	nd_3		
V619	SS	Supervisor: Scan barcode once form is reviewed and approved:	
V620	sur_result_ss	Final result of the survey (Supervisor)	
V621	metainstanceID	meta-instanceID	
V622	KEY	Key	

Total: 622

**Data file: MTF\_HH\_Characteristics.dta**

Household roster

Cases: 19408

Variables: 19

**Variables**

ID	Name	Label	Question
V623	A2a	Scan a household roster barcode to establish an individual ID for this responden	
V624	A3	Is \${A2} male or female?	A.3. Is [NAME] male or female?
V625	A4	What is the relationship of \${A2} to household head?	A.4. What is the relationship of [NAME] to household head?
V626	A5	How old is \${A2}?	A.5. How old is [NAME]?
V627	A7	Has \${A2} ever attended school?	A.7. Has [NAME] ever attended school?
V628	A8	Is \${A2} currently attending school?	A.8. Is [NAME] currently attending school?
V629	A9	What is the highest educational qualification acquired by \${A2}?	A.9. What is the highest educational qualification acquired by [NAME]?
V630	A9A	How many year of \${A9a} has \${A2} completed?	A.9A. How many years of [A.9] has [NAME] completed?
V631	A11	How frequently does \${A2} cook food for the household?	A.11. How frequently does [NAME] cook food for the household?
V632	A13	What was \${A2}'s main occupation for the last 12 months?	A.13. What was [NAME]'s main occupation for the last 12 months?
V633	A13_other	What was \${A2}'s main occupation for the last 12 months? (Other)	A.13. What was [NAME]'s main occupation for the last 12 months? Other
V634	A14	Please select the kind of trade or business \${A2} main occupation best fits from	A.14. Please describe the kind of trade or business [NAME]'s main occupation best fits from the list of industries.
V635	A15	Out of the last 12 months, how many months was \${A2} engaged in this activity?	A.15. Out of the last 12 months, how many months were [NAME] engaged in this activity?
V636	A16	How many days per month does \${A2} work in this activity?	A.16. How many days per month does [NAME] work in this activity?
V637	A18	Does \${A2} operate any non-agricultural/business/enterprise within this househol	A.18. Does [NAME] operate any non-agricultural/ business/ enterprise within this household or compound?
V638	A19	How many employees does this business/enterprise have?	A.19. How many employees does this business/ enterprise have?
V639	PARENT_KEY	Parent key	
V640	KEY	Key	
V641	SETOFA	Household Roster	

Total: 19

**Data file: MTF\_HH\_SectionC1.dta**

Electricity from Mini Grid

- Availability of electricity in worst and typical months

Cases: 366

Variables: 10

**Variables**

ID	Name	Label	Question
V642	C61_1	Typical or Worst Month labeling set	
V643	C61	Do you receive information about a “load-shedding” schedule (load shedding is th	C.61 Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the mini grid)?
V644	C62	How many hours of electricity are available each day and night from the mini gri	C.62. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)
V645	C63	How many hours of electricity are available each evening, from 6:00 pm to 10:00	C.63. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)
V646	C64	How many hours of electricity do you use each day and night from the mini grid?	C.64. How many hours of electricity do you use each day from the mini-grid?
V647	C65	How many outages/blackouts occur in a week?	C.65. How many outages/blackouts occur in a week?
V648	C66	What is the total duration of all the outages/blackouts in a week?	C.66. What is the total duration of all the outages/blackouts in a week?
V649	PARENT_KEY	Parent key	
V650	KEY	Key	
V651	SETOFC61_C66	Typical and Worst Months of Electricity	

Total: 10

**Data file: MTF\_HH\_SectionC2.dta**

Electricity from solar-based device  
 - Availability of electricity in worst and typical months

Cases: 552

Variables: 7

**Variables**

ID	Name	Label	Question
V652	C148b	Is this information for the worst or a typical month?	
V653	C148	How many hours do you receive service from your main solar device each day and n	C.148. How many hours do you receive service from this [DEVICE] each day and night? (max 24 hours)
V654	C149	How many hours is service available from this main solar device each evening, fr	C.149. How many hours is service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm? (max 4 hours)
V655	C150	How many hours do you actually use your main solar device each day for lighting	C.150. How many hours do you actually use the [DEVICE] each day for lighting and other applications? (max 24 hours)
V656	PARENT_KEY	Parent key	
V657	KEY	Key	
V658	SETOFC148_150	Worst Months of Electricity	

Total: 7

**Data file: MTF\_HH\_SectionC3.dta**

Electrical device (lighting and appliances)

- Ownership, working condition, source of electricity, and usage

Cases: 6250

Variables: 18

**Variables**

ID	Name	Label	Question
V659	C169_pos		
V660	C169_lbl		
V661	C169_rpt_pos		
V662	C169a	How many @@ in working condition does your household own?	a. How many [ITEM] in working condition does your household own?
V663	C169b	What is the source of electricity/energy used to power @@?	b. What is the source of electricity/ energy used to power [ITEM]?
V664	C169c1	In a typical day, at what time of day do you use @@? (#1/8)	c. In a typical day, at what time of day do you use [ITEM]?
V665	C169c2	In a typical day, at what time of day do you use @@? (#2/8)	c. In a typical day, at what time of day do you use [ITEM]?
V666	C169c3	In a typical day, at what time of day do you use @@? (#3/8)	c. In a typical day, at what time of day do you use [ITEM]?
V667	C169c4	In a typical day, at what time of day do you use @@? (#4/8)	c. In a typical day, at what time of day do you use [ITEM]?
V668	C169c5	In a typical day, at what time of day do you use @@? (#5/8)	c. In a typical day, at what time of day do you use [ITEM]?
V669	C169c6	In a typical day, at what time of day do you use @@? (#6/8)	c. In a typical day, at what time of day do you use [ITEM]?
V670	C169c7	In a typical day, at what time of day do you use @@? (#7/8)	c. In a typical day, at what time of day do you use [ITEM]?
V671	C169c8	In a typical day, at what time of day do you use @@? (#8/8)	c. In a typical day, at what time of day do you use [ITEM]?
V672	C169d	How many hours does your household use @@ in a typical day during weekdays?	d. How many hours does your household use [ITEM] in a typical day during weekdays?
V673	C169e	How many hours does your household use @@ in a typical day during weekends?	e. How many hours does your household use [ITEM] in a typical day during weekend?
V674	PARENT_KEY	Parent key	
V675	KEY	Key	
V676	SETOFC169_rpt	Lighting and Appliances	

Total: 18

**Data file: MTF\_HH\_SectionG.dta**

Dry-cell batteries

Cases: 3432

Variables: 21

**Variables**

ID	Name	Label	Question
V677	G3_pos		
V678	G3_lbl		
V679	G3_rpt_pos		
V680	G4	How many @@ does your household power with dry cell batteries?	G.4. How many of [ITEM] does your household power with dry cell batteries?
V681	G5	How much did you pay for each @@ on average? If more than one, input average	G.5. How much did you pay for each [ITEM] on average?
V682	G6	In the last 12 months, how many months did you use @@?	G.6. In the last 12 months, how many months did you use [ITEM]?
V683	G7	How many hours do you use @@ each day on a typical day?	G.7. How many hours do you use [ITEM] each day on a typical day?
V684	G8	How many dry cell batteries do you purchase each month for @@?	G.8. How many of dry cell batteries do you purchase each month for [ITEM]?
V685	G9	How much do you spend each month on dry cell batteries for @@?	G.9. How much do you spend each month on dry cell batteries for [ITEM]?
V686	G10	Do you used @@ as a regular source of lighting or only as a back-up source when	G.10. Do you use [ITEM] as a regular source of lighting or only as a back-up source when the main source is not available?
V687	G11_1	At what time of day do you use @@ each day? (#1/8)	G.11. At what time of day do you use [LIGHT] each day?
V688	G11_2	At what time of day do you use @@ each day? (#2/8)	G.11. At what time of day do you use [LIGHT] each day?
V689	G11_3	At what time of day do you use @@ each day? (#3/8)	G.11. At what time of day do you use [LIGHT] each day?
V690	G11_4	At what time of day do you use @@ each day? (#4/8)	G.11. At what time of day do you use [LIGHT] each day?
V691	G11_5	At what time of day do you use @@ each day? (#5/8)	G.11. At what time of day do you use [LIGHT] each day?
V692	G11_6	At what time of day do you use @@ each day? (#6/8)	G.11. At what time of day do you use [LIGHT] each day?
V693	G11_7	At what time of day do you use @@ each day? (#7/8)	G.11. At what time of day do you use [LIGHT] each day?
V694	G11_8	At what time of day do you use @@ each day? (#8/8)	G.11. At what time of day do you use [LIGHT] each day?
V695	PARENT_KEY	Parent key	
V696	KEY	Key	
V697	SETOFG3_rpt	Dry cells battery lighting sources	

Total: 21

**Data file: MTF\_HH\_SectionH.dta**

Household fuel consumption

Cases: 3877

Variables: 46

**Variables**

ID	Name	Label	Question
V698	H2_pos	Fuel Type	H.2. Fuel Type
V699	H2_lbl	Fuel Type - label	H.2. Fuel Type - label
V700	H2_rpt_pos		
V701	H4_9_1	In the last 12 months, what did your household use @@ for? (#1/6)	In the last 12 months, what did your household use [FUEL] for?
V702	H4_9_2	In the last 12 months, what did your household use @@ for? (#2/6)	In the last 12 months, what did your household use [FUEL] for?
V703	H4_9_3	In the last 12 months, what did your household use @@ for? (#3/6)	In the last 12 months, what did your household use [FUEL] for?
V704	H4_9_4	In the last 12 months, what did your household use @@ for? (#4/6)	In the last 12 months, what did your household use [FUEL] for?
V705	H4_9_5	In the last 12 months, what did your household use @@ for? (#5/6)	In the last 12 months, what did your household use [FUEL] for?
V706	H4_9_6	In the last 12 months, what did your household use @@ for? (#6/6)	In the last 12 months, what did your household use [FUEL] for?
V707	H4_9_other	In the last 12 months, what did your household use @@ for? (Other)	In the last 12 months, what did your household use [FUEL] for? Oher
V708	H10_1	In the last 12 months, in which months did you use @@? (#1/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V709	H10_2	In the last 12 months, in which months did you use @@? (#2/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V710	H10_3	In the last 12 months, in which months did you use @@? (#3/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V711	H10_4	In the last 12 months, in which months did you use @@? (#4/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V712	H10_5	In the last 12 months, in which months did you use @@? (#5/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V713	H10_6	In the last 12 months, in which months did you use @@? (#6/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V714	H10_7	In the last 12 months, in which months did you use @@? (#7/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V715	H10_8	In the last 12 months, in which months did you use @@? (#8/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V716	H10_9	In the last 12 months, in which months did you use @@? (#9/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V717	H10_10	In the last 12 months, in which months did you use @@? (#10/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V718	H10_11	In the last 12 months, in which months did you use @@? (#11/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V719	H10_12	In the last 12 months, in which months did you use @@? (#12/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V720	H10_13	In the last 12 months, in which months did you use @@? (#13/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?

ID	Name	Label	Question
V721	H10_14	In the last 12 months, in which months did you use @@? (#14/14)	H.10. In the last 12 months, in which months did you use this [FUEL]?
V722	H11_1	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V723	H11_2	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V724	H11_3	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V725	H11_4	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V726	H11_5	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V727	H11_6	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V728	H11_7	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V729	H11_8	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V730	H11_9	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V731	H11_10	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V732	H11_11	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V733	H11_12	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V734	H11_13	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V735	H11_14	In the last 12 months, in which month was the @@ scarce or significantly more ex	H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?
V736	H11b	In what units is @@ sold?	
V737	H11c		
V738	H12	In the last 30 days, how many \${H11c} of @@ did your household use?	H.12. In the last 30 days, how much of this [FUEL] did your household use?
V739	H13	In the last 30 days, how many \${H11c} of @@ did your household purchase/collect?	H.13. In the last 30 days, how much of this [fuel type] did you purchase/collect?
V740	H14	In the last 30 days, how much did you pay for the amount of @@ that you purchase	H.14. In the last 30 days, how much did you pay for the amount of [FUEL] that you purchased?
V741	PARENT_KEY	Parent key	
V742	KEY	Key	
V743	SETOFH2_rpt	Household Fuel Consumption	

Total: 46

**Data file: MTF\_HH\_SectionM.dta**

Household assets

- Transportation and agricultural equipment ownership and total

Cases: 201

Variables: 20

**Variables**

ID	Name	Label	Question
V744	M_pos	Item	Item
V745	M_lbl	Item - label	Item - label
V746	M_rpt_pos		Item
V747	Ma	How many @@ in working condition do you own?	a. How many [ITEM] in working condition does your household own?
V748	Mb	What is the average capacity of the @@ your household owns?	b. What is the average capacity of [ITEM] your household own?
V749	Mc	What is the source of energy used to power your @@?	c. What is the source of energy used to power [ITEM]?
V750	Mc_other	What is the source of energy used to power your @@? (Other)	c. What is the source of energy used to power [ITEM]? Other
V751	Md1	In a typical day, at what time of day do you use your @@? (#1/8)	d. In a typical day, at what time of day do you [ITEM]?
V752	Md2	In a typical day, at what time of day do you use your @@? (#2/8)	d. In a typical day, at what time of day do you [ITEM]?
V753	Md3	In a typical day, at what time of day do you use your @@? (#3/8)	d. In a typical day, at what time of day do you [ITEM]?
V754	Md4	In a typical day, at what time of day do you use your @@? (#4/8)	d. In a typical day, at what time of day do you [ITEM]?
V755	Md5	In a typical day, at what time of day do you use your @@? (#5/8)	d. In a typical day, at what time of day do you [ITEM]?
V756	Md6	In a typical day, at what time of day do you use your @@? (#6/8)	d. In a typical day, at what time of day do you [ITEM]?
V757	Md7	In a typical day, at what time of day do you use your @@? (#7/8)	d. In a typical day, at what time of day do you [ITEM]?
V758	Md8	In a typical day, at what time of day do you use your @@? (#8/8)	d. In a typical day, at what time of day do you [ITEM]?
V759	Me	How many hours does your household use your @@ in a typical day during the weekd	e. How many hours does your household use [ITEM] in a typical day during weekdays?
V760	Mf	How many hours does your household use your @@ in a typical day during the weeke	f. How many hours does your household use [ITEM] in a typical day during weekend?
V761	PARENT_KEY	Parent key	
V762	KEY	Key	
V763	SETOFM_rpt	Infrastructure and Services	

Total: 20



**HH\_ID: Household ID****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3887    Invalid: 16    Minimum: 1    Maximum: 463  
 Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 463    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	,13	1	0%
2	1	207	5.3%
3	1( A very Thick Bush)	1	0%
4	1( Thick Bush)	1	0%
5	10	225	5.8%
6	10(Old farm)	1	0%
7	10201	1	0%
8	10203	1	0%
9	10310	1	0%
10	10311	1	0%
11	10312	1	0%
12	10403	1	0%
13	10406	1	0%
14	10414	1	0%
15	10506	1	0%
16	10509	1	0%
17	10612	1	0%
18	10614	1	0%
19	10616	1	0%
20	11	221	5.7%
21	11 (Big bush)	1	0%
22	12	220	5.7%
23	12 (former farm hut)	1	0%
24	12804	1	0%
25	12816	1	0%
26	12904	1	0%
27	12908	1	0%
28	12913	1	0%
29	13	220	5.7%
30	13(A very thick Bush not accessible)	1	0%

31	13; 18	1	0%
32	14	210	5.4%
33	14 (Thick Forest land/not a household)	1	0%
34	15	203	5.2%
35	15 (thick forest land)	1	0%
36	16	171	4.4%
37	16 (hut spot in the Forest)	1	0%
38	17	5	0.1%
39	18	1	0%
40	2	218	5.6%
41	2( very thick forest not accessible)	1	0%
42	21	1	0%
43	23	1	0%
44	24	1	0%
45	25	1	0%
46	26	2	0.1%
47	28	1	0%
48	28-3	1	0%
49	28-4	1	0%
50	28-5	1	0%
51	2802	1	0%
52	2806	1	0%
53	2807	1	0%
54	2809	1	0%
55	2810	1	0%
56	2811	1	0%
57	2812	1	0%
58	2813	1	0%
59	2814	1	0%
60	29	1	0%
61	3	209	5.4%
62	3( A very thick bush not a structure)	1	0%
63	30	1	0%
64	35-11	1	0%
65	35-13	1	0%
66	35-16	1	0%
67	3501	1	0%
68	3502	1	0%
69	3503	1	0%

70	3506	1	0%
71	3509	1	0%
72	3510	1	0%
73	3512	1	0%
74	3514	1	0%
75	3605	1	0%
76	38	1	0%
77	38-10	1	0%
78	38-12	1	0%
79	38-4	1	0%
80	3801	1	0%
81	3803	1	0%
82	3807	1	0%
83	3813	1	0%
84	3816	2	0.1%
85	39-15	1	0%
86	39-16	1	0%
87	39-7	1	0%
88	3902	1	0%
89	3903	1	0%
90	3904	1	0%
91	3905	1	0%
92	3910	1	0%
93	3912	1	0%
94	3914	1	0%
95	3A23HU16	1	0%
96	4	210	5.4%
97	4 (unaccessible forest/big bush).	1	0%
98	4( Thick Bush not a HH)	1	0%
99	411	1	0%
100	4111	1	0%
101	4112	1	0%
102	4113	1	0%
103	4114	1	0%
104	4115	1	0%
105	4116	1	0%
106	412	1	0%
107	413	1	0%
108	414	1	0%

109	415	1	0%
110	416	1	0%
111	417	1	0%
112	418	1	0%
113	419	1	0%
114	431	1	0%
115	4310	1	0%
116	4311	1	0%
117	4312	1	0%
118	4313	1	0%
119	4314	1	0%
120	4315	1	0%
121	4316	1	0%
122	432	1	0%
123	433	1	0%
124	434	1	0%
125	435	1	0%
126	436	1	0%
127	437	1	0%
128	438	1	0%
129	439	1	0%
130	44-10	1	0%
131	44-14	1	0%
132	44-4	1	0%
133	4401	1	0%
134	4402	1	0%
135	4403	1	0%
136	4407	1	0%
137	4408	1	0%
138	4409	1	0%
139	4411	1	0%
140	4412	1	0%
141	4413	1	0%
142	4415	1	0%
143	4416	1	0%
144	451	1	0%
145	4510	1	0%
146	4511	1	0%
147	4512	1	0%

148	4513	1	0%
149	4514	1	0%
150	4516	1	0%
151	452	1	0%
152	453	1	0%
153	455	1	0%
154	456	1	0%
155	457	1	0%
156	458	1	0%
157	459	1	0%
158	461	1	0%
159	4610	1	0%
160	4611	1	0%
161	4613	1	0%
162	4614	1	0%
163	4615	1	0%
164	462	1	0%
165	463	1	0%
166	464	1	0%
167	465	1	0%
168	467	1	0%
169	468	1	0%
170	469	1	0%
171	5	224	5.8%
172	5 (thick forest/not a household).	1	0%
173	5( A very thick Bush)	1	0%
174	544	1	0%
175	56 11	1	0%
176	561	1	0%
177	5610	1	0%
178	5612	1	0%
179	5613	1	0%
180	5614	1	0%
181	5615	1	0%
182	5616	1	0%
183	562	1	0%
184	563	1	0%
185	564	1	0%
186	565	1	0%

187	566	1	0%
188	567	1	0%
189	568	1	0%
190	569	1	0%
191	6	224	5.8%
192	6 zinc latrine	1	0%
193	60-1	2	0.1%
194	60-5	1	0%
195	6002	1	0%
196	6003	1	0%
197	6008	1	0%
198	6009	1	0%
199	6012	1	0%
200	6015	1	0%
201	6016	1	0%
202	66-11	1	0%
203	66-12	1	0%
204	66-16	1	0%
205	6602	1	0%
206	6604	1	0%
207	6605	1	0%
208	6606	1	0%
209	6607	2	0.1%
210	6608	1	0%
211	6609	1	0%
212	6610	1	0%
213	6611	1	0%
214	6614	2	0.1%
215	6615	1	0%
216	67Hu3	1	0%
217	7	218	5.6%
218	7 (thick forest)	1	0%
219	76-13	1	0%
220	76-15	1	0%
221	76-4	1	0%
222	7601	1	0%
223	76011	1	0%
224	7602	1	0%
225	7605	1	0%

226	7606	1	0%
227	7608	1	0%
228	7609	1	0%
229	7610	1	0%
230	7612	1	0%
231	7616	1	0%
232	767	1	0%
233	781	1	0%
234	7810	1	0%
235	7811	1	0%
236	7812	1	0%
237	7813	1	0%
238	7814	1	0%
239	7815	1	0%
240	7816	1	0%
241	782	1	0%
242	783	1	0%
243	784	1	0%
244	785	1	0%
245	786	1	0%
246	787	1	0%
247	788	1	0%
248	789	1	0%
249	8	221	5.7%
250	8 (former Homestead)	1	0%
251	8(Thick Bush)	1	0%
252	9	225	5.8%
253	9 (vacant land)	1	0%
254	9( A Very Thick Bush)	1	0%
255	EA 17HU5	1	0%
256	EA 42 HU1	1	0%
257	EA 42 HU13	1	0%
258	EA 42 HU7	1	0%
259	EA 42 HU9	1	0%
260	EA 49 HHU11	1	0%
261	EA 49 HU 7	1	0%
262	EA 49 HU15	1	0%
263	EA 49 HU4	1	0%
264	EA 49 HU8	1	0%

265	EA 49 HU9	1	0%
266	EA 67 HU 10	1	0%
267	EA 67 Hu14	1	0%
268	EA 75 HU6	1	0%
269	EA 75Hu10	1	0%
270	EA HHU3	1	0%
271	EA HU 10	1	0%
272	EA HU6	1	0%
273	EA Hu 5	1	0%
274	EA11	1	0%
275	EA17HU10	1	0%
276	EA17HU2	1	0%
277	EA17HU4	1	0%
278	EA17HU6	1	0%
279	EA22HU1	1	0%
280	EA22HU11	1	0%
281	EA22HU13	1	0%
282	EA22HU14	1	0%
283	EA22HU15	1	0%
284	EA22HU16	1	0%
285	EA22HU2	1	0%
286	EA22HU3	1	0%
287	EA22HU4	1	0%
288	EA22HU7	1	0%
289	EA22HU8	1	0%
290	EA22HU9	1	0%
291	EA23HU10	1	0%
292	EA23HU11	1	0%
293	EA23HU13	1	0%
294	EA23HU14	1	0%
295	EA23HU15	1	0%
296	EA23HU3	1	0%
297	EA23HU4	1	0%
298	EA23HU7	1	0%
299	EA23HU8	1	0%
300	EA23HU9	1	0%
301	EA2HU13	1	0%
302	EA2HU15	1	0%
303	EA2HU2	1	0%

304	EA2HU5	1	0%
305	EA2HU7	1	0%
306	EA2HU8	1	0%
307	EA31HU1	1	0%
308	EA31HU11	1	0%
309	EA31HU12	1	0%
310	EA31HU13	1	0%
311	EA31HU14	1	0%
312	EA31HU15	1	0%
313	EA31HU16	1	0%
314	EA31HU2	1	0%
315	EA31HU3	1	0%
316	EA31HU5	1	0%
317	EA31HU6	1	0%
318	EA31HU7	1	0%
319	EA31HU8	1	0%
320	EA33HU14	1	0%
321	EA33HU2	1	0%
322	EA33HU4	1	0%
323	EA33HU6	1	0%
324	EA34HU1	1	0%
325	EA34HU10	1	0%
326	EA34HU11	1	0%
327	EA34HU13	1	0%
328	EA34HU14	1	0%
329	EA34HU3	1	0%
330	EA34HU4	1	0%
331	EA34HU5	2	0.1%
332	EA34HU6	1	0%
333	EA34HU7	1	0%
334	EA34HU8	1	0%
335	EA34HU9	1	0%
336	EA36HU1	1	0%
337	EA36HU10	1	0%
338	EA36HU14	1	0%
339	EA36HU15	1	0%
340	EA36HU16	1	0%
341	EA36HU2	1	0%
342	EA36HU3	1	0%

343	EA36HU5	1	0%
344	EA36HU6	1	0%
345	EA36HU7	1	0%
346	EA36HU9	1	0%
347	EA49 HHU10	1	0%
348	EA49 Hu 14	1	0%
349	EA49HU13	1	0%
350	EA49HU16	1	0%
351	EA49HU2	1	0%
352	EA64 HU4	1	0%
353	EA64 HU6	1	0%
354	EA64HU1	1	0%
355	EA64HU12	1	0%
356	EA64HU14	1	0%
357	EA64HU16	1	0%
358	EA64HU2	1	0%
359	EA64HU3	1	0%
360	EA64HU5	1	0%
361	EA67 HU4	1	0%
362	EA67 HU5	1	0%
363	EA67 HU6	1	0%
364	EA67HU1	1	0%
365	EA67HU11	1	0%
366	EA67HU16	1	0%
367	EA67HU2	1	0%
368	EA67HU8	1	0%
369	EA67Hu13	1	0%
370	EA70	1	0%
371	EA70HU1	1	0%
372	EA70HU12	1	0%
373	EA70HU13	1	0%
374	EA70HU14	1	0%
375	EA70HU15	1	0%
376	EA70HU6	1	0%
377	EA70HU7	1	0%
378	EA70HU8	1	0%
379	EA73 HU15	1	0%
380	EA73 HU16	1	0%
381	EA73 HU4	1	0%

382	EA73 HU5	1	0%
383	EA73 HU6	1	0%
384	EA73HU1	1	0%
385	EA73HU10	1	0%
386	EA73HU11	1	0%
387	EA73HU13	1	0%
388	EA73HU14	1	0%
389	EA73HU8	1	0%
390	EA73HU9	1	0%
391	EA75HU08	1	0%
392	EA75HU1	1	0%
393	EA75HU13	1	0%
394	EA75HU15	1	0%
395	EA75HU2	1	0%
396	EA75HU3	1	0%
397	EA77HU11	1	0%
398	EA77HU12	1	0%
399	EA77HU3	1	0%
400	EA77HU5	1	0%
401	EA77HU9	1	0%
402	EA8	1	0%
403	EAHU 12	1	0%
404	EAHU10	1	0%
405	EAHU12	3	0.1%
406	EAHU13	1	0%
407	EAHU16	1	0%
408	EAHU2	1	0%
409	EAHU3	1	0%
410	EAHU5	2	0.1%
411	EAHU6	1	0%
412	Ea ,75 hu 11	1	0%
413	Ea 17 hh 1	1	0%
414	Ea 75 hu 12	1	0%
415	Ea,77hu6	1	0%
416	Ea17 hu 7	1	0%
417	Ea17 hu9	1	0%
418	Ea1710	1	0%
419	Ea1713	1	0%
420	Ea1714	1	0%

421	Ea2 hu 6	1	0%
422	Ea2 hu3	1	0%
423	Ea2hu1	1	0%
424	Ea2hu12	1	0%
425	Ea2hu14	1	0%
426	Ea64HU9	1	0%
427	Ea64hu15	1	0%
428	Ea64hu7	1	0%
429	Ea67Hu15	1	0%
430	Ea70hu5	1	0%
431	Ea70hu9	2	0.1%
432	Ea73Hu2	1	0%
433	Ea73Hu3	1	0%
434	Ea75Hu4	1	0%
435	Ea75Hu5	1	0%
436	Ea77 hu 10	1	0%
437	Ea77 hu 14	1	0%
438	Ea77 hu 16	1	0%
439	Ea77hu2	1	0%
440	Ea77hu4	1	0%
441	EaHu11	1	0%
442	Eahu8	1	0%
443	HHU 15	1	0%
444	HHU1	1	0%
445	HU 3	1	0%
446	HU 7	1	0%
447	HU 8	1	0%
448	HU10	1	0%
449	HU15	1	0%
450	Hu 006	1	0%
451	Hu 008	1	0%
452	Hu 012	1	0%
453	Hu 11	1	0%
454	Hu 14	1	0%
455	Hu 15	1	0%
456	Hu 16	1	0%
457	Hu 4	1	0%
458	Hu002	1	0%
459	Hu006	1	0%

460	Hu007	1	0%
461	Hu008	1	0%
462	Hu13	1	0%
463	O9	1	0%
Sysmiss		16	

## HEIGHT: Height

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3902 Invalid: 1 Minimum: 2 Maximum: 5001  
 Type: Discrete Decimal: 0 Width: 4 Range: 2 - 5001 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
2		7	0.2%
11		1	0%
111		155	4%
121		201	5.2%
131		188	4.8%
141		192	4.9%
151		196	5%
211		84	2.2%
221		152	3.9%
231		134	3.4%
241		140	3.6%
251		132	3.4%
311		161	4.1%
321		169	4.3%
331		169	4.3%
341		169	4.3%
351		139	3.6%
411		96	2.5%
421		150	3.8%
431		156	4%
441		154	3.9%
451		93	2.4%

511		99	2.5%
521		200	5.1%
531		193	4.9%
541		182	4.7%
551		175	4.5%
1001		4	0.1%
3001		6	0.2%
4001		4	0.1%
5001		1	0%
Sysmiss		1	

### DATE\_OF\_QUESTIONNAIRE\_SUBMISSION: Date of the questionnaire submission

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3902 Invalid: 1  
 Type: Continuous Width: 20 Range: - Format: character

### COUNTY: Select the county of survey

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 16  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 16 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

2. County

CATEGORIES

Value	Category	Cases	
1	Bomi	133	3.4%
2	Bong	409	10.5%
3	Gbarpolu	96	2.5%
4	Grand Bassa	253	6.5%
5	Grand Cape Mount	166	4.3%
6	Grand Gedeh	109	2.8%
7	Grand Kru	72	1.8%
8	Montserrado (Greater Monrovia)	1146	29.4%
9	Lofa	266	6.8%

10	Margibi	290	7.4%
11	Maryland	118	3%
12	Montserrado (Other)	174	4.5%
13	Nimba	398	10.2%
14	River Gee	60	1.5%
15	Rivercess	104	2.7%
16	Sinoe	108	2.8%
Sysmiss		1	

## DISTRICT: Select the district of survey

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 86  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 86 Format: Numeric

### Questions and instructions

LITERAL QUESTION

3. District

CATEGORIES

Value	Category	Cases	
1	1	30	0.8%
2	2	45	1.2%
3	3	32	0.8%
4	4	26	0.7%
5	5	27	0.7%
6	6	38	1%
7	7	79	2%
8	8	26	0.7%
9	9	12	0.3%
10	10	80	2.1%
11	11	13	0.3%
12	12	41	1.1%
13	13	30	0.8%
14	14	51	1.3%
15	15	12	0.3%
16	16	13	0.3%
17	17	23	0.6%
18	18	36	0.9%

19	19	12	0.3%
20	20	12	0.3%
21	21	26	0.7%
22	22	24	0.6%
23	23	37	0.9%
24	24	39	1%
25	25	74	1.9%
26	26	25	0.6%
27	27	28	0.7%
28	28	34	0.9%
29	29	30	0.8%
30	30	17	0.4%
31	31	85	2.2%
32	32	15	0.4%
33	33	14	0.4%
34	34	12	0.3%
35	35	14	0.4%
36	36	54	1.4%
37	37	24	0.6%
38	38	12	0.3%
39	39	36	0.9%
40	40	1137	29.1%
41	41	51	1.3%
42	42	23	0.6%
43	43	19	0.5%
44	44	11	0.3%
45	45	111	2.8%
46	46	51	1.3%
47	47	131	3.4%
48	48	77	2%
49	49	32	0.8%
50	50	50	1.3%
51	51	24	0.6%
52	52	62	1.6%
53	53	32	0.8%
54	54	0	0%
55	55	24	0.6%
56	56	48	1.2%
57	57	24	0.6%

58	58	47	1.2%
59	59	28	0.7%
60	60	12	0.3%
61	61	12	0.3%
62	62	12	0.3%
63	63	60	1.5%
64	64	12	0.3%
65	65	36	0.9%
66	66	47	1.2%
67	67	24	0.6%
68	68	12	0.3%
69	69	38	1%
70	70	2	0.1%
71	71	93	2.4%
72	72	50	1.3%
73	73	24	0.6%
74	74	24	0.6%
75	75	12	0.3%
76	76	8	0.2%
77	77	17	0.4%
78	78	14	0.4%
79	79	39	1%
80	80	26	0.7%
81	81	14	0.4%
82	82	41	1.1%
83	83	16	0.4%
84	84	13	0.3%
85	85	12	0.3%
86	86	12	0.3%
Sysmiss		1	

## EA: Specify the EA of survey

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 293

Type: Continuous Decimal: 0 Width: 3 Range: 1 - 293 Format: Numeric

## Questions and instructions

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LITERAL QUESTION

4. EA

### LOCALITY: Select the locality of survey

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

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LITERAL QUESTION

5. Locality

CATEGORIES

Value	Category	Cases	
1	Urban	1982	50.8%
2	Rural	1920	49.2%
Sysmiss		1	

### LANGUAGE: Language of interview

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3898 Invalid: 5 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

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LITERAL QUESTION

8. Language of interview

CATEGORIES

Value	Category	Cases	
1	English	1644	42.2%
2	Liberian English	2254	57.8%
3	other	0	0%
Sysmiss		5	

**HOUSEHOLD\_STRUCTURE: Scan the barcode of on your enumerator ID****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3902    Invalid: 1    Minimum: 1    Maximum: 5000  
 Type: Discrete    Decimal: 0    Width: 4    Range: 1 - 5000    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		7	0.2%
10		1	0%
110		155	4%
120		201	5.2%
130		188	4.8%
140		192	4.9%
150		196	5%
210		84	2.2%
220		152	3.9%
230		134	3.4%
240		140	3.6%
250		132	3.4%
310		161	4.1%
320		169	4.3%
330		169	4.3%
340		169	4.3%
350		139	3.6%
410		96	2.5%
420		150	3.8%
430		156	4%
440		154	3.9%
450		93	2.4%
510		99	2.5%
520		200	5.1%
530		193	4.9%
540		182	4.7%
550		175	4.5%
1000		4	0.1%
3000		6	0.2%
4000		4	0.1%

5000		1	0%
Sysmiss		1	

### NUMBER\_OF\_APARTMENT\_UNITS: Enter in the number of units apartment units or separate dwellings found at this

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3857 Invalid: 46 Minimum: 0 Maximum: 20  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 20 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		51	1.3%
1		2944	76.3%
2		307	8%
3		209	5.4%
4		176	4.6%
5		69	1.8%
6		42	1.1%
7		24	0.6%
8		11	0.3%
9		8	0.2%
10		7	0.2%
11		2	0.1%
12		3	0.1%
13		2	0.1%
15		1	0%
20		1	0%
Sysmiss		46	

### LENGTH: Foot Length

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3902 Invalid: 1 Minimum: 3 Maximum: 5002  
 Type: Discrete Decimal: 0 Width: 4 Range: 3 - 5002 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
3		7	0.2%
12		1	0%
112		155	4%
122		201	5.2%
132		188	4.8%
142		192	4.9%
152		196	5%
212		84	2.2%
222		152	3.9%
232		134	3.4%
242		140	3.6%
252		132	3.4%
312		161	4.1%
322		169	4.3%
332		169	4.3%
342		169	4.3%
352		139	3.6%
412		96	2.5%
422		150	3.8%
432		156	4%
442		154	3.9%
452		93	2.4%
512		99	2.5%
522		200	5.1%
532		193	4.9%
542		182	4.7%
552		175	4.5%
1002		4	0.1%
3002		6	0.2%
4002		4	0.1%
5002		1	0%
Sysmiss		1	

**FIRST\_DATE\_OF\_INTERVIEW: Date of 1st Interview****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3902    Invalid: 1  
 Type: Continuous    Width: 10    Range: -    Format: Date

**Questions and instructions**

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LITERAL QUESTION

15. Date of Interview

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**SECOND\_DATE\_OF\_INTERVIEW: Date of 2nd Interview****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3887    Invalid: 16  
 Type: Continuous    Width: 10    Range: -    Format: Date

**Questions and instructions**

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LITERAL QUESTION

18. Date of Second Interview

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**THIRD\_DATE\_OF\_INTERVIEW: Date of 3rd Interview****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3824    Invalid: 79  
 Type: Continuous    Width: 10    Range: -    Format: Date

**Questions and instructions**

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LITERAL QUESTION

21. Date of Third Interview

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**CONSENT: Do you consent to take part in this survey?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3732    Invalid: 171    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	3717	99.6%
2	No	15	0.4%
Sysmiss		171	

## HH\_MEMBERS: How many individuals are in this household (that fulfill the criteria in the pre

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 17  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 17 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		159	4.3%
2		320	8.6%
3		491	13.2%
4		601	16.2%
5		640	17.2%
6		524	14.1%
7		353	9.5%
8		241	6.5%
9		141	3.8%
10		171	4.6%
11		26	0.7%
12		25	0.7%
13		12	0.3%
14		3	0.1%
15		6	0.2%
16		1	0%
17		3	0.1%
Sysmiss		186	

**HH\_ROASTER: Household Roster****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903    Invalid:  
 Type: Continuous    Width: 50    Range: -    Format: character

**B1: Enumerator: Scan the household roster barcode to register the respondent ID for****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 1    Maximum: 5000  
 Type: Discrete    Decimal: 0    Width: 4    Range: 1 - 5000    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.1. Enumerator: Record Respondent ID for this section

## CATEGORIES

Value	Category	Cases	
1		2420	65.1%
2		928	25%
3		226	6.1%
4		82	2.2%
5		27	0.7%
6		15	0.4%
7		6	0.2%
8		2	0.1%
10		1	0%
250		1	0%
330		2	0.1%
430		1	0%
510		1	0%
540		2	0.1%
3000		2	0.1%
5000		1	0%
Sysmiss		186	

**B2: Does your household live in this dwelling for the entire year?****Data file:** MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.2. Does your household live in this dwelling for the entire year?

CATEGORIES

Value	Category	Cases	
1	Yes	3603	96.9%
2	No	114	3.1%
Sysmiss		186	

**B3: Is this your main dwelling?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 114 Invalid: 3789 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.3. Is this your main dwelling?

CATEGORIES

Value	Category	Cases	
1	Yes	82	71.9%
2	No	32	28.1%
Sysmiss		3789	

**B4: What is the type of dwelling?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3712 Invalid: 191 Minimum: 1 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.4. What is the type of dwelling?

## CATEGORIES

Value	Category	Cases	
1	A single house occupied by one household dwelling	2649	71.4%
2	A house occupied by multiple households	1020	27.5%
3	Multi-storied building with one household	5	0.1%
4	Multi-storied building with more households	9	0.2%
5	Group of enclosed dwellings: multiple households	16	0.4%
6	Group of enclosed dwellings occupied by a single household	13	0.4%
7	other	0	0%
Sysmiss		191	

**B4\_OTHER: What is the type of dwelling? (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 12 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

B.4. What is the type of dwelling? Other

## CATEGORIES

Value	Category	Cases	
		3902	100%
Zinc to Zinc		1	0%

**B5: How many households share your dwelling?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1044 Invalid: 2859 Minimum: 0 Maximum: 15  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 15 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.5. How many households share your dwelling?

## CATEGORIES

Value	Category	Cases	
0		2	0.2%

1		45	4.3%
2		335	32.1%
3		253	24.2%
4		159	15.2%
5		95	9.1%
6		66	6.3%
7		39	3.7%
8		21	2%
9		10	1%
10		10	1%
11		4	0.4%
12		2	0.2%
13		2	0.2%
15		1	0.1%
Sysmiss		2859	

## B6: Do you own this dwelling?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3715 Invalid: 188 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

LITERAL QUESTION

B.6. Do you own this dwelling?

CATEGORIES

Value	Category	Cases	
1	Yes	2517	67.8%
2	No	1198	32.2%
Sysmiss		188	

## B7: Do you use it for free or rent it?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 1198 Invalid: 2705 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

B.7. Do you use it for free or rent it?

### CATEGORIES

Value	Category	Cases	
1	Free	505	42.2%
2	Rented	693	57.8%
Sysmiss		2705	

## B8: How many rooms (excluding the kitchen, toilet, and bathroom) does the household

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2000  
 Type: Discrete Decimal: 0 Width: 4 Range: 1 - 2000 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

B.8. How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy?

### CATEGORIES

Value	Category	Cases	
1		605	16.3%
2		820	22.1%
3		1028	27.7%
4		685	18.4%
5		321	8.6%
6		137	3.7%
7		51	1.4%
8		31	0.8%
9		10	0.3%
10		10	0.3%
11		3	0.1%
12		6	0.2%
13		2	0.1%
14		2	0.1%
15		1	0%
17		1	0%
24		1	0%

500		1	0%
2000		2	0.1%
Sysmiss		186	

### B9: The walls of the dwelling are mainly made of what material?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3687 Invalid: 216 Minimum: 1 Maximum: 18  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 18 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

B.9. The walls of the dwelling are mainly made of what material?

CATEGORIES

Value	Category	Cases	
1	Wood and mud	1082	29.3%
2	Wood and thatch	19	0.5%
3	Wood only	4	0.1%
4	Stone only	2	0.1%
5	Stone and mud	47	1.3%
6	Stone and cement	182	4.9%
7	Blocks, plastered with cement	1196	32.4%
8	Blocks, unplastered	122	3.3%
9	Bricks	168	4.6%
10	Mud bricks (traditional)	673	18.3%
11	Steel	2	0.1%
12	Cargo container	1	0%
13	Parquet or polished wood	0	0%
14	Chip wood	2	0.1%
15	Corrugated iron/zinc sheet	144	3.9%
16	Asbestos	0	0%
17	Reed/bamboo	25	0.7%
18	other	18	0.5%
Sysmiss		216	

### B9\_OTHER: The walls of the dwelling are mainly made of what material? (Other)

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 34 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

B.9. The walls of the dwelling are mainly made of what material? Other

### CATEGORIES

Value	Category	Cases	
		3855	98.8%
Blocks plastered with cement		3	0.1%
Bricks and Cement		1	0%
Bricks plaster With cement		1	0%
Bricks plasters with Cement		2	0.1%
Marble tiles		1	0%
Mud bricks plastered with cement		17	0.4%
Mud Bricks plastered with cement		1	0%
Mud Bricks plastered With Cement		1	0%
Mud Bricks Plastered With Cement		5	0.1%
Mud plaster with cement		1	0%
Mud plaster with Cement		1	0%
Reed / mud		1	0%
Reed/ Bamboo/ Cement		1	0%
Wood and mud plastered with cement		3	0.1%
Zinc		6	0.2%
Zinc round		1	0%
Zinc to zinc		1	0%
Zone round		1	0%

## B10: The roof of the dwelling is mainly made of what material?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3714 Invalid: 189 Minimum: 1 Maximum: 8  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

B.10. The roof of the dwelling is mainly made of what material?

## CATEGORIES

Value	Category	Cases	
1	Wood and mud	7	0.2%
2	Wood and thatch	352	9.5%
3	Stone and Cement	13	0.4%
4	Bricks	2	0.1%
5	Corrugated iron sheet	3236	87.1%
6	Asbestos	28	0.8%
7	Reed/bamboo	61	1.6%
8	Plastic/Canvas/Tarpaulin	15	0.4%
9	other	0	0%
Sysmiss		189	

**B10\_OTHER: The roof of the dwelling is mainly made of what material? (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 13 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

B.10. The roof of the dwelling is mainly made of what material? Other

## CATEGORIES

Value	Category	Cases	
		3900	99.9%
Polished wood		1	0%
Wood/ planks		1	0%
Zinc to zinc		1	0%

**B11: The floor of the dwelling is mainly made of what material?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3697 Invalid: 206 Minimum: 1 Maximum: 9  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 9 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.11. The floor of the dwelling is mainly made of what material?

#### CATEGORIES

Value	Category	Cases	
1	Mud/Dung	1396	37.8%
2	Reed/bamboo	3	0.1%
3	Wood planks	0	0%
4	Parquet or polished wood	2	0.1%
5	Cement screed	1704	46.1%
6	Plastic tiles	50	1.4%
7	Cement tiles	357	9.7%
8	Brick tiles	22	0.6%
9	Ceramic/Marble tiles	163	4.4%
10	other	0	0%
Sysmiss		206	

### B11\_OTHER: The floor of the dwelling is mainly made of what material? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 29 Range: - Format: character

#### Questions and instructions

#### LITERAL QUESTION

B.11. The floor of the dwelling is mainly made of what material? Other

#### CATEGORIES

Value	Category	Cases	
		3883	99.5%
Dried mud		1	0%
Floor has not been worked on.		1	0%
Floor mats		4	0.1%
Floor Mats		2	0.1%
Flow Mat		2	0.1%
Free sand		1	0%
Row		1	0%
Sand		6	0.2%
Sand floor/not plastic		1	0%
Sandy		1	0%

**B12\_1: What type of toilet facility does your household use? (#1/8)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3653 Invalid: 250 Minimum: 1 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.12. What type of toilet facility does your household use?

## CATEGORIES

Value	Category	Cases	
1	None (open field)	1300	35.6%
2	Flush to sewage	101	2.8%
3	Flush to septic tank	899	24.6%
4	Pail/Bucket	27	0.7%
5	Covered pit latrine	784	21.5%
6	Uncovered pit latrine	155	4.2%
7	Community latrine	306	8.4%
8	other	81	2.2%
Sysmiss		250	

**B12\_2: What type of toilet facility does your household use? (#2/8)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 22 Invalid: 3881 Minimum: 2 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.12. What type of toilet facility does your household use?

## CATEGORIES

Value	Category	Cases	
1	None (open field)	0	0%
2	Flush to sewage	1	4.5%
3	Flush to septic tank	1	4.5%
4	Pail/Bucket	0	0%

5	Covered pit latrine	7	31.8%
6	Uncovered pit latrine	2	9.1%
7	Community latrine	6	27.3%
8	other	5	22.7%
Sysmiss		3881	

## B12\_OTHER: What type of toilet facility does your household use? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:

Type: Discrete Width: 41 Range: - Format: character

### Questions and instructions

LITERAL QUESTION

B.12. What type of toilet facility does your household use? Other

CATEGORIES

Value	Category	Cases	
		3795	97.2%
Along the river bank		1	0%
Beach		3	0.1%
Bush		83	2.1%
Bushes		2	0.1%
Coast Guard base provided one lateren		1	0%
Creek		3	0.1%
Dig hole and bury		1	0%
Go on the beach to toilet		1	0%
Hangover structure over a swampy area		1	0%
Open pit latrine		1	0%
Public latrine		1	0%
Rib		1	0%
River		1	0%
River bank		5	0.1%
Uncover latrine built on river		1	0%
Uncover latrine built on top of the river		1	0%
Uncover latrine on top of the river		1	0%

**B13: What is your household's main source of drinking water?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3709 Invalid: 194 Minimum: 1 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.13. What is your household's main source of drinking water?

CATEGORIES

Value	Category	Cases	
1	Pipe borne water treated	372	10%
2	Pipe borne water untreated	68	1.8%
3	Borehole/ hand pump	2009	54.2%
4	Electric water pump	7	0.2%
5	Well/spring protected	206	5.6%
6	Well/spring unprotected	205	5.5%
7	River/spring	391	10.5%
8	Lake/reservoir	87	2.3%
9	Rain water	0	0%
10	Tanker/truck/vendor	39	1.1%
11	Sachet water	313	8.4%
12	Bottle water	12	0.3%
13	other	0	0%
Sysmiss		194	

**B13\_OTHER: What is your household's main source of drinking water? (Other)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 21 Range: - Format: character

**Questions and instructions**

LITERAL QUESTION

B.13. What is your household's main source of drinking water? Other

CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

		3895	99.8%
Buy drinking		1	0%
Buy water		1	0%
Creek		2	0.1%
Mineral Water sack		1	0%
Sack of plastic water		1	0%
Sack plastic water		2	0.1%

## B14: Is your drinking water treated (chemical treatment)?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3716 Invalid: 187 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

### Questions and instructions

LITERAL QUESTION

B.14. Is your drinking water treated (chemical treatment)?

CATEGORIES

Value	Category	Cases	
1	Yes	2413	64.9%
2	No	1017	27.4%
888	Don't know	286	7.7%
Sysmiss		187	

## B15\_1: If you can get a loan/credit, what are the sources of credit/loans? (#1/14)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3713 Invalid: 190 Minimum: 1 Maximum: 14  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 14 Format: Numeric

### Questions and instructions

LITERAL QUESTION

B.15. If you can get a loan/credit, what are the sources of credit/loans?

CATEGORIES

Value	Category	Cases	
1	Commercial/government bank	244	6.6%

2	Cooperative credit union	83	2.2%
3	Microfinance institution	89	2.4%
4	Rural bank	10	0.3%
5	State loan	2	0.1%
6	NGO	174	4.7%
7	Business firm	19	0.5%
8	Employer	21	0.6%
9	Moneylender	26	0.7%
10	Shop	34	0.9%
11	Relative/friend/neighbor	343	9.2%
12	Mobile money services	3	0.1%
13	Cannot get a loan/credit	2644	71.2%
14	other	21	0.6%
Sysmiss		190	

## B15\_2: If you can get a loan/credit, what are the sources of credit/loans? (#2/14)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 151 Invalid: 3752 Minimum: 2 Maximum: 14  
 Type: Discrete Decimal: 0 Width: 2 Range: 2 - 14 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

B.15. If you can get a loan/credit, what are the sources of credit/loans?

#### CATEGORIES

Value	Category	Cases	
1	Commercial/government bank	0	0%
2	Cooperative credit union	4	2.6%
3	Microfinance institution	8	5.3%
4	Rural bank	3	2%
5	State loan	1	0.7%
6	NGO	29	19.2%
7	Business firm	3	2%
8	Employer	0	0%
9	Moneylender	4	2.6%
10	Shop	9	6%
11	Relative/friend/neighbor	74	49%
12	Mobile money services	1	0.7%

13	Cannot get a loan/credit	11	7.3%
14	other	4	2.6%
Sysmiss		3752	

### B15\_3: If you can get a loan/credit, what are the sources of credit/loans? (#3/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 27 Invalid: 3876 Minimum: 6 Maximum: 13  
 Type: Discrete Decimal: 0 Width: 2 Range: 6 - 13 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

B.15. If you can get a loan/credit, what are the sources of credit/loans?

##### CATEGORIES

Value	Category	Cases	
1	Commercial/government bank	0	0%
2	Cooperative credit union	0	0%
3	Microfinance institution	0	0%
4	Rural bank	0	0%
5	State loan	0	0%
6	NGO	2	7.4%
7	Business firm	1	3.7%
8	Employer	0	0%
9	Moneylender	0	0%
10	Shop	0	0%
11	Relative/friend/neighbor	21	77.8%
12	Mobile money services	0	0%
13	Cannot get a loan/credit	3	11.1%
14	other	0	0%
Sysmiss		3876	

### B15\_OTHER: If you can get a loan/credit, what are the sources of credit/loans? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 44 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

B.15. If you can get a loan/credit, what are the sources of credit/loans? Other

### CATEGORIES

Value	Category	Cases	
		3898	99.9%
888		1	0%
Condition and rate will determine which one		1	0%
Employer		1	0%
Savings club		1	0%
Susu		1	0%

## B16: Do you have a mobile money account?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3715 Invalid: 188 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

B.16. Do you have a mobile money account?

### CATEGORIES

Value	Category	Cases	
1	Yes	641	17.3%
2	No	3074	82.7%
Sysmiss		188	

## B17: Do you use mobile money to make payments over the mobile phone?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 641 Invalid: 3262 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

B.17. Do you use mobile money to make payments over the mobile phone?

## CATEGORIES

Value	Category	Cases	
1	Yes	380	59.3%
2	No	261	40.7%
Sysmiss		3262	

**B18: Have you used the account in the past 90 days?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 380 Invalid: 3523 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.18. Have you used the account in the past 90 days?

## CATEGORIES

Value	Category	Cases	
1	Yes	327	86.1%
2	No	53	13.9%
Sysmiss		3523	

**B19\_1: How do you use the mobile money services? (#1/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 380 Invalid: 3523 Minimum: 1 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

## CATEGORIES

Value	Category	Cases	
1	Receive money from family/friends/other	353	92.9%
2	Transfer credit to family/relatives	24	6.3%
3	Top up credit	1	0.3%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	1	0.3%

6	Pay for Water	0	0%
7	Internet top-up/credit	0	0%
8	Commercial purchases	0	0%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	1	0.3%
12	Get small loans from mobile provider	0	0%
13	other	0	0%
Sysmiss		3523	

## B19\_2: How do you use the mobile money services? (#2/13)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 221 Invalid: 3682 Minimum: 2 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 2 - 11 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

#### CATEGORIES

Value	Category	Cases	
1	Receive money from family/friends/other	0	0%
2	Transfer credit to family/relatives	202	91.4%
3	Top up credit	7	3.2%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	4	1.8%
6	Pay for Water	2	0.9%
7	Internet top-up/credit	0	0%
8	Commercial purchases	0	0%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	6	2.7%
12	Get small loans from mobile provider	0	0%
13	other	0	0%
Sysmiss		3682	

**B19\_3: How do you use the mobile money services? (#3/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 58 Invalid: 3845 Minimum: 3 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 3 - 11 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

CATEGORIES

Value	Category	Cases	
1	Receive money from family/friends/other	0	0%
2	Transfer credit to family/relatives	0	0%
3	Top up credit	38	65.5%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	5	8.6%
6	Pay for Water	0	0%
7	Internet top-up/credit	1	1.7%
8	Commercial purchases	0	0%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	14	24.1%
12	Get small loans from mobile provider	0	0%
13	other	0	0%
Sysmiss		3845	

**B19\_4: How do you use the mobile money services? (#4/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 17 Invalid: 3886 Minimum: 5 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 5 - 11 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

CATEGORIES

Value	Category	Cases	
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1	Receive money from family/friends/other	0	0%
2	Transfer credit to family/relatives	0	0%
3	Top up credit	0	0%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	4	23.5%
6	Pay for Water	0	0%
7	Internet top-up/credit	3	17.6%
8	Commercial purchases	1	5.9%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	9	52.9%
12	Get small loans from mobile provider	0	0%
13	other	0	0%
Sysmiss		3886	

### B19\_5: How do you use the mobile money services? (#5/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2 Invalid: 3901 Minimum: 8 Maximum: 13  
 Type: Discrete Decimal: 0 Width: 2 Range: 8 - 13 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

##### CATEGORIES

Value	Category	Cases	
1	Receive money from family/friends/other	0	0%
2	Transfer credit to family/relatives	0	0%
3	Top up credit	0	0%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	0	0%
6	Pay for Water	0	0%
7	Internet top-up/credit	0	0%
8	Commercial purchases	1	50%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	0	0%
12	Get small loans from mobile provider	0	0%

13	other	1	50%
Sysmiss		3901	

### B19\_6: How do you use the mobile money services? (#6/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1 Invalid: 3902 Minimum: 11 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 11 - 11 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

B.19. How do you use the mobile money services? (Mark all that apply)

CATEGORIES

Value	Category	Cases	
1	Receive money from family/friends/other	0	0%
2	Transfer credit to family/relatives	0	0%
3	Top up credit	0	0%
4	Receive NGO/State support	0	0%
5	Pay for Electricity	0	0%
6	Pay for Water	0	0%
7	Internet top-up/credit	0	0%
8	Commercial purchases	0	0%
9	Insurance	0	0%
10	Loan payments	0	0%
11	Savings	1	100%
12	Get small loans from mobile provider	0	0%
13	other	0	0%
Sysmiss		3902	

### B19\_OTHER: How do you use the mobile money services? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 14 Range: - Format: character

#### Questions and instructions

## LITERAL QUESTION

B.19. How do you use the mobile money services? Other

## CATEGORIES

Value	Category	Cases	
		3902	100%
Cable TV bills		1	0%

**C1: Enumerator: Scan the household roster barcode to register the respondent ID for**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 14489  
 Type: Discrete Decimal: 0 Width: 5 Range: 1 - 14489 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.1. Enumerator: Record Respondent ID for this section

## CATEGORIES

Value	Category	Cases	
1		2400	64.6%
2		950	25.6%
3		235	6.3%
4		70	1.9%
5		26	0.7%
6		13	0.3%
7		7	0.2%
8		3	0.1%
10		1	0%
210		1	0%
220		2	0.1%
240		1	0%
250		3	0.1%
510		1	0%
3000		1	0%
5000		2	0.1%
14489		1	0%
Sysmiss		186	

**C2: Is the household connected to the national grid?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.2. Is the household connected to the national grid?

CATEGORIES

Value	Category	Cases	
1	Yes	558	15%
2	No	3159	85%
Sysmiss		186	

**C3A: How far is your house from the nearest national grid line in kilometers?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3074    Invalid: 829    Minimum: 0    Maximum: 900  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 900    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.3. How far is your house from the nearest national grid line?

CATEGORIES

Value	Category	Cases	
0		12	0.4%
1		68	2.2%
2		19	0.6%
3		13	0.4%
4		4	0.1%
5		30	1%
6		2	0.1%
7		4	0.1%
8		3	0.1%
10		9	0.3%
15		3	0.1%

20		2	0.1%
25		2	0.1%
28		1	0%
30		3	0.1%
32		1	0%
38		2	0.1%
40		1	0%
45		4	0.1%
55		1	0%
60		1	0%
63		1	0%
65		1	0%
88		2	0.1%
100		1	0%
200		1	0%
720		2	0.1%
885		1	0%
888		2879	93.7%
900		1	0%
Sysmiss		829	

### C3B: How far is your house from the nearest national grid line in terms of minutes wa

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3076 Invalid: 827 Minimum: 0 Maximum: 888000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 888000000 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.3. How far is your house from the nearest national grid line?

### C4: What is the MAIN reason why your household is not connected to the grid?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3063 Invalid: 840 Minimum: 1 Maximum: 10  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.4. What is the MAIN reason why your household is not connected to the grid?

### CATEGORIES

Value	Category	Cases	
1	Grid is too far from household/not available	2563	83.7%
2	Cost of initial connection is too expensive	217	7.1%
3	Monthly fee is too expensive	26	0.8%
4	Satisfied with current energy solution	3	0.1%
5	Renting, Landlord decision	5	0.2%
6	Service Unreliable	9	0.3%
7	Administrative procedure is too complicated	85	2.8%
8	Submitted application and waiting for connection	48	1.6%
9	Company refused to connect the household	78	2.5%
10	other	29	0.9%
Sysmiss		840	

### C4\_OTHER: What is the MAIN reason why your household is not connected to the grid? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:

Type: Discrete Width: 56 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

C.4. What is the MAIN reason why your household is not connected to the grid? Other

### CATEGORIES

Value	Category	Cases	
		3874	99.3%
Because this community lacks access to road		1	0%
Don't know		5	0.1%
Don't known		1	0%
Electric city has not reached his community		1	0%
Electricity have not reached the community.		1	0%
Electricity have not reached us yet.		1	0%
Has not reached us		3	0.1%

House has been marked for demolition		1	0%
Household head was absent during LEC date of connection.		1	0%
It still far from us yet.		1	0%
Lack access to road		1	0%
Na		3	0.1%
No LEC current is around us here.		1	0%
No reason		1	0%
Not applicable		1	0%
Not Available		1	0%
Respondent doesn't know the processes involved		1	0%
The grid has not reached me yet.		1	0%
They are not yet ready to get connection		1	0%
Very Far from the road and it is not available		1	0%
We have not see the LEC people		1	0%

### C5: Do you expect to get grid connection?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3083 Invalid: 820 Minimum: 1 Maximum: 999  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.5. Do you expect to get grid connection?

CATEGORIES

Value	Category	Cases	
1	Yes	644	20.9%
888	Don't know	1851	60%
999	Don't expect to get connection	588	19.1%
Sysmiss		820	

### C6: What month and year do you expect to get grid connection?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 644 Invalid: 3259  
 Type: Continuous Width: 10 Range: - Format: Date

## Questions and instructions

LITERAL QUESTION

C.6. What month and year do you expect to get grid connection?

### C7: How many years have you had this grid connection?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 557 Invalid: 3346 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

LITERAL QUESTION

C.7. How many years have you had this grid connection?

CATEGORIES

Value	Category	Cases	
1		244	43.8%
2		133	23.9%
3		82	14.7%
4		28	5%
5		37	6.6%
6		15	2.7%
7		4	0.7%
8		4	0.7%
9		1	0.2%
10		4	0.7%
11		1	0.2%
12		1	0.2%
16		1	0.2%
500		1	0.2%
888		1	0.2%
Sysmiss		3346	

### C8: How much did your household pay for the grid connection fee?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 558 Invalid: 3345 Minimum: 0 Maximum: 100000

Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 100000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

C.8. How much did your household pay for the grid connection fee?

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## C9: How much did your household pay for the internal wiring fee?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 511    Invalid: 3392    Minimum: 0    Maximum: 600000  
 Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 600000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

C.9. How much did your household pay for the internal wiring fee?

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## C10: How many weeks after you applied for the grid connection did your household get

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 511    Invalid: 3392    Minimum: 0    Maximum: 888  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 888    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

C.10. How many weeks after you applied for the grid connection did your household get connected?

### CATEGORIES

Value	Category	Cases	
0		192	37.6%
1		32	6.3%
2		32	6.3%
3		24	4.7%
4		42	8.2%
5		6	1.2%
6		5	1%
8		9	1.8%
10		5	1%
12		15	2.9%

16		4	0.8%
17		1	0.2%
18		1	0.2%
20		8	1.6%
24		10	2%
28		1	0.2%
40		3	0.6%
42		1	0.2%
48		3	0.6%
52		13	2.5%
88		1	0.2%
104		1	0.2%
240		1	0.2%
300		1	0.2%
365		2	0.4%
888		98	19.2%
Sysmiss		3392	

### C11: How many weeks after you were connected were you able to use electricity in your

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 511 Invalid: 3392 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.11. How many weeks after you were connected were you able to use electricity in your home?

##### CATEGORIES

Value	Category	Cases	
0		382	74.8%
1		25	4.9%
2		17	3.3%
3		6	1.2%
4		10	2%
5		3	0.6%
6		2	0.4%
8		3	0.6%
10		1	0.2%

12		4	0.8%
20		2	0.4%
24		1	0.2%
48		1	0.2%
52		1	0.2%
56		1	0.2%
888		52	10.2%
Sysmiss		3392	

## C12: Who receives the payment for your electricity service?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 553 Invalid: 3350 Minimum: 1 Maximum: 9  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

### Questions and instructions

LITERAL QUESTION

C.12. Who receives the payment for your electricity service?

CATEGORIES

Value	Category	Cases	
1	Energy company/LEC	109	19.7%
2	Pre-paid meter card seller	287	51.9%
3	Community/village/municipality	6	1.1%
4	Relative	4	0.7%
5	Neighbor	98	17.7%
6	Landlord	26	4.7%
7	No one	14	2.5%
8	Mobile money payment	7	1.3%
9	other	2	0.4%
Sysmiss		3350	

## C12\_OTHER: Who receives the payment for your electricity service? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 110 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

C.12. Who receives the payment for your electricity service? Other

### CATEGORIES

Value	Category	Cases	
		3898	99.9%
Company had an amount of 20 which the hh started using henceforth no payment has been effected yet by the hh.		1	0%
Don't Know		1	0%
Not paying yet		1	0%
Pay to someone who works with the power company.		1	0%
There was no bill payments done during the time of power usage.		1	0%

## C13: Does your household have an electric meter?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 544 Invalid: 3359 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.13. Does your household have an electric meter?

### CATEGORIES

Value	Category	Cases	
1	Yes	400	73.5%
2	No	144	26.5%
Sysmiss		3359	

## C14: Is this a pre-paid meter?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 400 Invalid: 3503 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

## C.14. Is this a pre-paid meter?

## CATEGORIES

Value	Category	Cases	
1	Yes	376	94%
2	No	24	6%
Sysmiss		3503	

**C15: Does your household share the electric meter?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 400 Invalid: 3503 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.15. Does your household share the electric meter?

## CATEGORIES

Value	Category	Cases	
1	Yes	80	20%
2	No	320	80%
Sysmiss		3503	

**C16: How many households are sharing the meter?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 80 Invalid: 3823 Minimum: 0 Maximum: 10  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 10 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.16. How many households are sharing the meter?

## CATEGORIES

Value	Category	Cases	
0		1	1.3%
1		6	7.5%
2		26	32.5%

3		16	20%
4		13	16.3%
5		5	6.3%
6		9	11.3%
7		1	1.3%
9		1	1.3%
10		2	2.5%
Sysmiss		3823	

### C17: How are you billed for electricity?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 144 Invalid: 3759 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.17. How are you billed for electricity?

CATEGORIES

Value	Category	Cases	
1	Fixed monthly fee	129	89.6%
2	Pay based on lights and appliances used	6	4.2%
3	Utility estimates consumption	2	1.4%
111	No bill for electricity	6	4.2%
112	other	1	0.7%
Sysmiss		3759	

### C17\_OTHER: How are you billed for electricity? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 42 Range: - Format: character

#### Questions and instructions

LITERAL QUESTION

C.17. How are you billed for electricity? Other

## CATEGORIES

Value	Category	Cases	
		3902	100%
Getting meter from LEC, is very difficult.		1	0%

**C18: What is the most common way you make your electricity bill payment?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 540 Invalid: 3363 Minimum: 1 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.18. What is the most common way you make your electricity bill payment?

## CATEGORIES

Value	Category	Cases	
1	Cash	356	65.9%
2	Vouchers/token/pre-paid card from local store	147	27.2%
3	Credits using mobile money	13	2.4%
4	Pay at the utility office	23	4.3%
5	Pay at the bank/post office	0	0%
6	other	1	0.2%
Sysmiss		3363	

**C18\_OTHER: What is the most common way you make your electricity bill payment? (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 31 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

C.18. What is the most common way you make your electricity bill payment? Other

## CATEGORIES

Value	Category	Cases	
		3898	99.9%
Benefit from her husband family		1	0%

Free testing period		1	0%
Landlords		1	0%
Neighbor		1	0%
Not paying yet		1	0%

### C19: Enumerator: If the respondent pays the energy company or has a record of the ele

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 543 Invalid: 3360 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Respondent has energy bill and shows it	88	16.2%
2	Respondent has energy bill but refuses to show it or could not locate it	150	27.6%
3	Respondent does not have an energy bill	305	56.2%
Sysmiss		3360	

##### INTERVIEWER INSTRUCTIONS

C.19. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C.20 and C.21 .

### C20: In a typical month, how much did you spend on the electric bill?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 88 Invalid: 3815 Minimum: 15 Maximum: 160000  
 Type: Discrete Decimal: 0 Width: 6 Range: 15 - 160000 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.20. In a typical month, how much did you spend on the electric bill?

##### CATEGORIES

Value	Category	Cases	
15		1	1.1%
30		2	2.3%
40		1	1.1%
70		1	1.1%

500		1	1.1%
550		1	1.1%
888		1	1.1%
1000		8	9.1%
1080		3	3.4%
1100		3	3.4%
1695		1	1.1%
2000		9	10.2%
2160		2	2.3%
2200		7	8%
2500		1	1.1%
2625		1	1.1%
2750		3	3.4%
3000		3	3.4%
3240		1	1.1%
3500		1	1.1%
4000		4	4.5%
4320		1	1.1%
4500		2	2.3%
5000		9	10.2%
5250		1	1.1%
5400		1	1.1%
5500		2	2.3%
5724		1	1.1%
6000		4	4.5%
6480		1	1.1%
6600		1	1.1%
7000		1	1.1%
8000		1	1.1%
10700		1	1.1%
10800		1	1.1%
11000		1	1.1%
16200		1	1.1%
20000		1	1.1%
25000		1	1.1%
35000		1	1.1%
160000		1	1.1%
Sysmiss		3815	

**C21: In a typical month how much electricity did your household consume?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 88 Invalid: 3815 Minimum: 6 Maximum: 19500  
 Type: Discrete Decimal: 0 Width: 5 Range: 6 - 19500 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.21. In a typical month how much electricity did your household consume?

## CATEGORIES

Value	Category	Cases	
6		1	1.1%
8		1	1.1%
10		1	1.1%
15		1	1.1%
18		4	4.5%
19		1	1.1%
20		1	1.1%
23		2	2.3%
24		1	1.1%
36		2	2.3%
37		1	1.1%
38		4	4.5%
45		1	1.1%
46		2	2.3%
57		1	1.1%
58		1	1.1%
72		2	2.3%
76		1	1.1%
90		1	1.1%
94		1	1.1%
113		1	1.1%
120		1	1.1%
132		1	1.1%
200		1	1.1%
230		1	1.1%
233		1	1.1%

351		1	1.1%
800		1	1.1%
888		43	48.9%
1310		1	1.1%
3000		1	1.1%
3732		1	1.1%
5000		2	2.3%
13360		1	1.1%
19500		1	1.1%
Sysmiss		3815	

### C20B: In a typical month, how much did you spend on electricity?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 470 Invalid: 3433 Minimum: 0 Maximum: 10000000000  
 Type: Continuous Decimal: 0 Width: 11 Range: 0 - 10000000000 Format: Numeric

### C22: Is the quality of electricity service the same all year?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 557 Invalid: 3346 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.22. Is the quality of electricity service the same all year?

##### CATEGORIES

Value	Category	Cases	
1	Yes	249	44.7%
2	No	308	55.3%
Sysmiss		3346	

### C23\_1: What are the worst months for service from the grid? (#1/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 305 Invalid: 3598 Minimum: 1 Maximum: 888

Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 888    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.23. What are the worst months for service from the grid?

## CATEGORIES

Value	Category	Cases	
1	January	92	30.2%
2	February	19	6.2%
3	March	23	7.5%
4	April	24	7.9%
5	May	34	11.1%
6	June	31	10.2%
7	July	21	6.9%
8	August	7	2.3%
9	September	4	1.3%
10	October	3	1%
11	November	7	2.3%
12	December	4	1.3%
888	Don't know	36	11.8%
Sysmiss		3598	

**C23\_2: What are the worst months for service from the grid? (#2/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 229    Invalid: 3674    Minimum: 2    Maximum: 12

Type: Discrete    Decimal: 0    Width: 3    Range: 2 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.23. What are the worst months for service from the grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	79	34.5%
3	March	10	4.4%
4	April	6	2.6%

5	May	19	8.3%
6	June	34	14.8%
7	July	35	15.3%
8	August	20	8.7%
9	September	7	3.1%
10	October	4	1.7%
11	November	6	2.6%
12	December	9	3.9%
888	Don't know	0	0%
Sysmiss		3674	

### C23\_3: What are the worst months for service from the grid? (#3/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 189 Invalid: 3714 Minimum: 3 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.23. What are the worst months for service from the grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	63	33.3%
4	April	1	0.5%
5	May	1	0.5%
6	June	15	7.9%
7	July	34	18%
8	August	33	17.5%
9	September	19	10.1%
10	October	5	2.6%
11	November	8	4.2%
12	December	9	4.8%
888	Don't know	1	0.5%
Sysmiss		3714	

**C23\_4: What are the worst months for service from the grid? (#4/13)****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 129    Invalid: 3774    Minimum: 4    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 4 - 12    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.23. What are the worst months for service from the grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	40	31%
5	May	1	0.8%
6	June	1	0.8%
7	July	14	10.9%
8	August	27	20.9%
9	September	24	18.6%
10	October	12	9.3%
11	November	5	3.9%
12	December	5	3.9%
888	Don't know	0	0%
Sysmiss		3774	

**C23\_5: What are the worst months for service from the grid? (#5/13)****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 93    Invalid: 3810    Minimum: 5    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 5 - 12    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.23. What are the worst months for service from the grid?

CATEGORIES

Value	Category	Cases	
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1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	39	41.9%
6	June	1	1.1%
7	July	1	1.1%
8	August	13	14%
9	September	20	21.5%
10	October	9	9.7%
11	November	6	6.5%
12	December	4	4.3%
888	Don't know	0	0%
Sysmiss		3810	

### C23\_6: What are the worst months for service from the grid? (#6/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 66 Invalid: 3837 Minimum: 6 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 6 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.23. What are the worst months for service from the grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	38	57.6%
7	July	2	3%
8	August	1	1.5%
9	September	11	16.7%
10	October	3	4.5%
11	November	4	6.1%
12	December	6	9.1%

888	Don't know	1	1.5%
Sysmiss		3837	

### C23\_7: What are the worst months for service from the grid? (#7/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 51 Invalid: 3852 Minimum: 7 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 7 - 12 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.23. What are the worst months for service from the grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	38	74.5%
8	August	1	2%
9	September	1	2%
10	October	6	11.8%
11	November	1	2%
12	December	4	7.8%
888	Don't know	0	0%
Sysmiss		3852	

### C23\_8: What are the worst months for service from the grid? (#8/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 44 Invalid: 3859 Minimum: 8 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 8 - 12 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.23. What are the worst months for service from the grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	37	84.1%
9	September	2	4.5%
10	October	1	2.3%
11	November	3	6.8%
12	December	1	2.3%
888	Don't know	0	0%
Sysmiss		3859	

**C23\_9: What are the worst months for service from the grid? (#9/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 41 Invalid: 3862 Minimum: 9 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 9 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.23. What are the worst months for service from the grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%

9	September	37	90.2%
10	October	2	4.9%
11	November	0	0%
12	December	2	4.9%
888	Don't know	0	0%
Sysmiss		3862	

### C23\_10: What are the worst months for service from the grid? (#10/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 38 Invalid: 3865 Minimum: 10 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 10 - 11 Format: Numeric

#### Questions and instructions

#### LITERAL QUESTION

C.23. What are the worst months for service from the grid?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	36	94.7%
11	November	2	5.3%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3865	

### C31\_OTHER: What is your main back-up source of electricity for appliances (including mobile

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 20 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

C.31. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid? Other

### CATEGORIES

Value	Category	Cases	
		3872	99.2%
Charging Booth		5	0.1%
Dry cell batter		1	0%
Dry cell batteries		1	0%
Dry cell battery		1	0%
Flash Light		2	0.1%
Flashlight		7	0.2%
Local charging Booth		3	0.1%
Local Charging Booth		7	0.2%
Sysmiss		1	
Phone light		1	0%
Phones light		1	0%
Use Charging Booth		1	0%

## C23\_11: What are the worst months for service from the grid? (#11/13)

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 38 Invalid: 3865 Minimum: 11 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 11 - 12 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.23. What are the worst months for service from the grid?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%

4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	36	94.7%
12	December	2	5.3%
888	Don't know	0	0%
Sysmiss		3865	

### C23\_12: What are the worst months for service from the grid? (#12/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 35 Invalid: 3868 Minimum: 12 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 12 - 12 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.23. What are the worst months for service from the grid?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	35	100%
888	Don't know	0	0%
Sysmiss		3868	

**C23\_13: What are the worst months for service from the grid? (#13/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1 Invalid: 3902 Minimum: 888 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 888 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.23. What are the worst months for service from the grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	0	0%
888	Don't know	1	100%
Sysmiss		3902	

**C242:**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 558 Invalid: 3345 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		250	44.8%

2		308	55.2%
Sysmiss		3345	

### C24\_29\_COUNT: Ss-MTF-Ca-C24\_29\_count

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 558 Invalid: 3345 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1		250	44.8%
2		308	55.2%
Sysmiss		3345	

### SETOFSSMTFCAC24\_29: Worst Months of Electricity

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Continuous Width: 58 Range: - Format: character

### C30: What is your main back-up source of lighting during outages/blackouts of the gri

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 555 Invalid: 3348 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.30. What is your main back-up source of lighting during outages/blackouts of the grid?

##### CATEGORIES

Value	Category	Cases	
1	Local mini grid connection	18	3.2%
2	Electric generator	97	17.5%

3	Rechargeable battery and storage devices (e.g.: car battery)	5	0.9%
4	Solar home system	5	0.9%
5	Solar Lantern/ solar lighting system	37	6.7%
7	Kerosene lamp	2	0.4%
8	Fuel-based lighting/Jack'o (Jargo) Lantern	0	0%
9	Dry cell (Non-rechargeable) battery/torch/flashlight lighting	324	58.4%
10	Candle	7	1.3%
111	No back-up source	58	10.5%
112	other	2	0.4%
Sysmiss		3348	

### C30\_OTHER: What is your main back-up source of lighting during outages/blackouts of the gri

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 15 Range: - Format: character

#### Questions and instructions

##### LITERAL QUESTION

C.30. What is your main back-up source of lighting during outages/blackouts of the grid? Other

##### CATEGORIES

Value	Category	Cases	
		3898	99.9%
CellPhone light		1	0%
Chinese light		1	0%
Phone light		1	0%
Phones		1	0%
Phones light		1	0%

### C31: What is your main back-up source of electricity for appliances (including mobile

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 535 Invalid: 3368 Minimum: 1 Maximum: 112  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.31. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?

## CATEGORIES

Value	Category	Cases	
1	Local mini grid connection	13	2.4%
2	Electric generator	97	18.1%
3	Rechargeable battery and storage devices (e.g.: car battery)	6	1.1%
4	Solar home system	7	1.3%
5	Solar Lantern/ solar lighting system	22	4.1%
111	No back-up source	374	69.9%
112	other	16	3%
Sysmiss		3368	

### C32: How do you request for repairs in electricity service or file a complaint?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 547 Invalid: 3356 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.32. How do you request for repairs in electricity service or file a complaint?

## CATEGORIES

Value	Category	Cases	
1	Call/SMS utility company	192	35.1%
2	Call a local technician	65	11.9%
3	Send a letter/email	15	2.7%
4	Social media	9	1.6%
5	Talk to community representative	49	9%
6	No system to request repairs/file complaint	195	35.6%
7	other	22	4%
Sysmiss		3356	

### C32\_OTHER: How do you request for repairs in electricity service or file a complaint? (Othe

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 41 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

C.32. How do you request for repairs in electricity service or file a complaint? Other

### CATEGORIES

Value	Category	Cases	
		3872	99.2%
Call landlord		1	0%
Go at their office		1	0%
Go there to LEC Office to report		1	0%
Go to National Grid office		1	0%
Go to power company		2	0.1%
Go to power company office		3	0.1%
Go to service provider		1	0%
Go to the office		1	0%
Go to the powers company office		1	0%
Have not encounter problem		1	0%
Have not had problem since been connected		1	0%
Landlord		1	0%
Neighbor		1	0%
Nobody		1	0%
The service provider is informed about it		1	0%
Walk and report it		1	0%
Walk there to file complaint		1	0%
Walk to Office		1	0%
Walk to power company		1	0%
Walk to power company office		1	0%
Walk to service provider		3	0.1%
Walk to the office		1	0%
Walk to the power company		1	0%
Walk to the power company office		2	0.1%
Walk to the power office		1	0%

**C33: When there is a blackout in your community, who do you usually approach for assi**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 557 Invalid: 3346 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.33. When there is a blackout in your community, who do you usually approach for assistance?

## CATEGORIES

Value	Category	Cases	
1	The power company	235	42.2%
2	Someone not from power company	66	11.8%
3	No-one: we wait until power returns	256	46%
Sysmiss		3346	

**C33B:**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 35 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		3346	85.7%
No-one: we wait until power returns		256	6.6%
Someone not from power company		66	1.7%
The power company		235	6%

**C34: The last time you asked for assistance, how many days after you contacted \${C33b}**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 296 Invalid: 3607 Minimum: 0 Maximum: 8640  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 8640 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.34. The last time you asked for assistance, how many days after you contacted [C.33 response] did they come to fix the

problem?

### C35: In the last 12 months, did any of your appliances get damaged because the voltage

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 558 Invalid: 3345 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.35. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?

##### CATEGORIES

Value	Category	Cases	
1	Yes	169	30.3%
2	No	389	69.7%
Sysmiss		3345	

### C36A: What are the most serious problems you experience with your grid electricity?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 557 Invalid: 3346 Minimum: 1 Maximum: 112  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

a. First

C.36. What are the most serious problems you experience with your grid electricity?

##### CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	51	9.2%
2	Low/high voltage problems or voltage fluctuations	99	17.8%
3	Unpredictable interruptions	185	33.2%
4	Unexpectedly high bills	6	1.1%
5	High cost of electricity	13	2.3%
6	Do not trust the supplier	7	1.3%
7	Cannot power large appliances	2	0.4%

8	Maintenance/service problems	53	9.5%
9	Unpredictable bills	1	0.2%
10	Electrical shocks	25	4.5%
11	Power theft from my house	5	0.9%
111	No problems	85	15.3%
112	other	25	4.5%
Sysmiss		3346	

### C36A\_OTHER: What are the most serious problems you experience with your grid electricity? (O

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 58 Range: - Format: character

#### Questions and instructions

LITERAL QUESTION

a. First

C.36. What are the most serious problems you experience with your grid electricity? Other

CATEGORIES

Value	Category	Cases	
		3877	99.3%
Administrative Procedure		1	0%
Administrative Procedures		1	0%
Administrative procedures too complicated		1	0%
Breaker thefts		1	0%
Company don't inform customers on load shedding		1	0%
Complicated administrative procedure		2	0.1%
Complicated administrative procedures		5	0.1%
Complicated Administrative procedures		6	0.2%
Complicated Administrative Procedures		3	0.1%
Don't respond to problems on time		1	0%
It is very difficult to get LEC meter		1	0%
Long time it takes for them to respond to customer's call.		1	0%
Needs to be informed about load shedding		1	0%
To get meter or response from LEC, is very difficult.		1	0%

**C36B: What are the second most serious problems you experience with your grid electric****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 550 Invalid: 3353 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

b. Second

C.36. What are the most serious problems you experience with your grid electricity?

CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	35	6.4%
2	Low/high voltage problems or voltage fluctuations	102	18.5%
3	Unpredictable interruptions	106	19.3%
4	Unexpectedly high bills	9	1.6%
5	High cost of electricity	24	4.4%
6	Do not trust the supplier	14	2.5%
7	Cannot power large appliances	7	1.3%
8	Maintenance/service problems	51	9.3%
9	Unpredictable bills	1	0.2%
10	Electrical shocks	22	4%
11	Power theft from my house	8	1.5%
111	No problems	162	29.5%
112	other	9	1.6%
Sysmiss		3353	

**C36B\_OTHER: What are the second most serious problems you experience with your grid electric****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 55 Range: - Format: character

**Questions and instructions**

LITERAL QUESTION

b. Second

C.36. What are the most serious problems you experience with your grid electricity? Other

CATEGORIES

Value	Category	Cases	
		3893	99.7%
Administrative procedure		1	0%
Administrative procedure too complicated		1	0%
Complicated administrative procedures		1	0%
Customers care or service is poor		1	0%
Is not regular		1	0%
It is very difficult to get LEC meter		1	0%
Poor administrative procedures		1	0%
Prepaid sales are limited for the area		1	0%
To get meter or response from LEC, is very difficult.		1	0%
When you don't have money your problem can't be solved.		1	0%

### C37: In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 555 Invalid: 3348 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.37. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity?

##### CATEGORIES

Value	Category	Cases	
1	Yes	4	0.7%
2	No	551	99.3%
Sysmiss		3348	

### C38: Is the household connected to a mini-grid?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.38. Is the household connected to a mini-grid?

CATEGORIES

Value	Category	Cases	
1	Yes	272	7.3%
2	No	3445	92.7%
Sysmiss		186	

**C39: What is the name of the local mini-grid company?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
Type: Continuous Width: 36 Range: - Format: character

**Questions and instructions**

LITERAL QUESTION

C.39. Is there a limit for the load and/or appliances you are allowed to power from this mini-grid?

**C40: Is there a limit for the load and/or appliances you are allowed to power from th**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 888  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.40. What is the name of the local mini-grid company?

CATEGORIES

Value	Category	Cases	
1	Yes	209	76.8%
2	No	61	22.4%
888	Don't know	2	0.7%
Sysmiss		3631	

**C41: How many years have you had this mini-grid connection?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.41. How many years have you had this mini-grid connection?

## CATEGORIES

Value	Category	Cases	
1		144	52.9%
2		54	19.9%
3		31	11.4%
4		10	3.7%
5		9	3.3%
6		9	3.3%
7		4	1.5%
8		1	0.4%
9		1	0.4%
10		2	0.7%
11		2	0.7%
888		5	1.8%
Sysmiss		3631	

**C42: How much did your household pay for the mini-grid connection fee?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 272 Invalid: 3631 Minimum: 0 Maximum: 35640  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 35640 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.42. How much did your household pay for the mini-grid connection fee?

**C43: How much did your household pay for the internal wiring?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 232 Invalid: 3671 Minimum: 0 Maximum: 200000

Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 200000    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.43. How much did your household pay for the internal wiring?

**C44: How many weeks after you applied for the mini-grid connection did your household**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 232    Invalid: 3671    Minimum: 0    Maximum: 888  
Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 888    Format: Numeric**Questions and instructions**

## LITERAL QUESTION

C.44. How many weeks after you applied for the mini-grid connection did your household get connected?

## CATEGORIES

Value	Category	Cases	
0		186	80.2%
1		31	13.4%
2		8	3.4%
3		3	1.3%
4		1	0.4%
8		2	0.9%
888		1	0.4%
Sysmiss		3671	

**C45: How many weeks after you were connected were you able to use electricity in your**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 232    Invalid: 3671    Minimum: 0    Maximum: 104  
Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 104    Format: Numeric**Questions and instructions**

## LITERAL QUESTION

C.45. How many weeks after you were connected were you able to use electricity in your home?

## CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

0		221	95.3%
1		8	3.4%
20		1	0.4%
48		1	0.4%
104		1	0.4%
Sysmiss		3671	

#### C46: Have you applied for an upgrade of service since you connected to the mini-grid?

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

C.46. Have you applied for an upgrade of service since you connected to the mini-grid?

###### CATEGORIES

Value	Category	Cases	
1	Yes	35	12.9%
2	No	237	87.1%
Sysmiss		3631	

#### C47: Who receives the payment for your electricity service?

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 268 Invalid: 3635 Minimum: 1 Maximum: 8  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

C.47. Who receives the payment for your electricity service?

###### CATEGORIES

Value	Category	Cases	
1	Energy company	167	62.3%
2	Pre-paid meter card seller	0	0%
3	Community/village/municipality	14	5.2%

4	Relative	2	0.7%
5	Neighbor	36	13.4%
6	Landlord	2	0.7%
7	No one	37	13.8%
8	other	10	3.7%
Sysmiss		3635	

## C47\_OTHER: Who receives the payment for your electricity service? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 57 Range: - Format: character

### Questions and instructions

#### LITERAL QUESTION

C.47. Who receives the payment for your electricity service? Other

#### CATEGORIES

Value	Category	Cases	
		3889	99.6%
Do not pay bills		1	0%
Don't pay because brother in-law works with the supplier.		1	0%
Free		4	0.1%
No payment		4	0.1%
There is no payment		1	0%
They do not pay bills		2	0.1%
Tokpah community service		1	0%

## C48: Does your household have an electric meter?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 235 Invalid: 3668 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

C.48. Does your household have an electric meter?

## CATEGORIES

Value	Category	Cases	
1	Yes	12	5.1%
2	No	223	94.9%
Sysmiss		3668	

**C49: Is this a pre-paid meter?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 12 Invalid: 3891 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.49. Is this a pre-paid meter?

## CATEGORIES

Value	Category	Cases	
1	Yes	3	25%
2	No	9	75%
Sysmiss		3891	

**C50: Does your household share the electric meter?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 12 Invalid: 3891 Minimum: 2 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.50. Does your household share the electric meter?

## CATEGORIES

Value	Category	Cases	
1	Yes	0	0%
2	No	12	100%
Sysmiss		3891	

**C52: How are you billed for electricity?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 223 Invalid: 3680 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.52. How are you billed for electricity?

CATEGORIES

Value	Category	Cases	
1	Fixed monthly fee	193	86.5%
2	Pay based on lights and appliances used	12	5.4%
3	Utility estimates consumption	2	0.9%
111	No bill for electricity	16	7.2%
Sysmiss		3680	

**C53: What is the most common way you make your electricity bill payment?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 225 Invalid: 3678 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.53. What is the most common way you make your electricity bill payment?

CATEGORIES

Value	Category	Cases	
1	Cash	224	99.6%
2	Vouchers from local store	0	0%
3	Credits using mobile money	1	0.4%
Sysmiss		3678	

**C54: Were you involved in setting the tariff for the mini-grid?****Data file:** MTF\_HH\_Main.dta

## Overview

Valid: 234 Invalid: 3669 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

LITERAL QUESTION

C.54. Were you involved in setting the tariff for the mini-grid?

CATEGORIES

Value	Category	Cases	
1	Yes	21	9%
2	No	213	91%
Sysmiss		3669	

### C55: How were you involved in the tariff setting?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 21 Invalid: 3882 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

LITERAL QUESTION

C.55. How were you involved in the tariff setting?

CATEGORIES

Value	Category	Cases	
1	Community meeting	4	19%
2	Contacted by mini-grid company	16	76.2%
3	Member of electricity committee	0	0%
4	Member of cooperative	1	4.8%
5	Form or survey conducted on household	0	0%
Sysmiss		3882	

### C56: Enumerator: If the respondent pays the energy company or has a record of the ele

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 233 Invalid: 3670 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Respondent has energy bill and shows it	23	9.9%
2	Respondent has energy bill but refuses to show it or could not locate it	20	8.6%
3	Respondent does not have an energy bill	190	81.5%
Sysmiss		3670	

### INTERVIEWER INSTRUCTIONS

C.56. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C.57 and C.58.

## C57: In the last month, how much did you spend on the electric bill?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 23 Invalid: 3880 Minimum: 40 Maximum: 12000  
Type: Discrete Decimal: 0 Width: 5 Range: 40 - 12000 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.57. In the last month, how much did you spend on the electric bill?

### CATEGORIES

Value	Category	Cases	
40		1	4.3%
45		1	4.3%
888		1	4.3%
1000		1	4.3%
3000		1	4.3%
3780		1	4.3%
4000		6	26.1%
4320		1	4.3%
4500		5	21.7%
5000		1	4.3%
5400		1	4.3%
10000		1	4.3%
10800		1	4.3%
12000		1	4.3%
Sysmiss		3880	

**C58: In the last month how much electricity did your household use?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 23 Invalid: 3880 Minimum: 2 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.58. In the last month how much electricity did your household use?

## CATEGORIES

Value	Category	Cases	
2		1	4.3%
100		1	4.3%
888		21	91.3%
Sysmiss		3880	

**C57B: In the last month, how much did you spend on the electricity?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 249 Invalid: 3654 Minimum: 0 Maximum: 11000  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 11000 Format: Numeric

**C59: Is the quality of electricity service the same all year?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.59. Is the quality of electricity service the same all year?

## CATEGORIES

Value	Category	Cases	
1	Yes	179	65.8%
2	No	93	34.2%

Sysmiss		3631	
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### C60\_1: What are the worst months for service from the grid? (#1/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 92 Invalid: 3811 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

CATEGORIES

Value	Category	Cases	
1	January	17	18.5%
2	February	16	17.4%
3	March	9	9.8%
4	April	11	12%
5	May	4	4.3%
6	June	8	8.7%
7	July	6	6.5%
8	August	2	2.2%
9	September	2	2.2%
10	October	1	1.1%
11	November	0	0%
12	December	2	2.2%
888	Don't know	14	15.2%
Sysmiss		3811	

### C60\_2: What are the worst months for service from the grid? (#2/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 58 Invalid: 3845 Minimum: 2 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 11 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	14	24.1%
3	March	4	6.9%
4	April	2	3.4%
5	May	8	13.8%
6	June	3	5.2%
7	July	7	12.1%
8	August	9	15.5%
9	September	3	5.2%
10	October	3	5.2%
11	November	5	8.6%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3845	

**C60\_3: What are the worst months for service from the grid? (#3/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 42 Invalid: 3861 Minimum: 3 Maximum: 12

Type: Discrete Decimal: 0 Width: 3 Range: 3 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	11	26.2%
4	April	1	2.4%
5	May	0	0%
6	June	5	11.9%
7	July	4	9.5%
8	August	5	11.9%
9	September	6	14.3%
10	October	1	2.4%

11	November	4	9.5%
12	December	5	11.9%
888	Don't know	0	0%
Sysmiss		3861	

#### C60\_4: What are the worst months for service from the grid? (#4/13)

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 20 Invalid: 3883 Minimum: 4 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 12 Format: Numeric

##### Questions and instructions

LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	5	25%
5	May	0	0%
6	June	0	0%
7	July	4	20%
8	August	0	0%
9	September	3	15%
10	October	2	10%
11	November	3	15%
12	December	3	15%
888	Don't know	0	0%
Sysmiss		3883	

#### C60\_5: What are the worst months for service from the grid? (#5/13)

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 12 Invalid: 3891 Minimum: 5 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 12 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	5	41.7%
6	June	0	0%
7	July	0	0%
8	August	3	25%
9	September	0	0%
10	October	2	16.7%
11	November	0	0%
12	December	2	16.7%
888	Don't know	0	0%
Sysmiss		3891	

### C60\_6: What are the worst months for service from the grid? (#6/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 8    Invalid: 3895    Minimum: 6    Maximum: 11  
 Type: Discrete    Decimal: 0    Width: 3    Range: 6 - 11    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	5	62.5%

7	July	0	0%
8	August	0	0%
9	September	2	25%
10	October	0	0%
11	November	1	12.5%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3895	

### C60\_7: What are the worst months for service from the grid? (#7/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 6    Invalid: 3897    Minimum: 7    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 7 - 12    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	4	66.7%
8	August	0	0%
9	September	0	0%
10	October	1	16.7%
11	November	0	0%
12	December	1	16.7%
888	Don't know	0	0%
Sysmiss		3897	

### C60\_8: What are the worst months for service from the grid? (#8/13)

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 4    Invalid: 3899    Minimum: 8    Maximum: 8  
 Type: Discrete    Decimal: 0    Width: 3    Range: 8 - 8    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	4	100%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3899	

## C60\_9: What are the worst months for service from the grid? (#9/13)

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 4    Invalid: 3899    Minimum: 9    Maximum: 9  
 Type: Discrete    Decimal: 0    Width: 3    Range: 9 - 9    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%

4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	4	100%
10	October	0	0%
11	November	0	0%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3899	

### C60\_10: What are the worst months for service from the grid? (#10/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 4    Invalid: 3899    Minimum: 10    Maximum: 10  
 Type: Discrete    Decimal: 0    Width: 3    Range: 10 - 10    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	4	100%
11	November	0	0%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3899	

**C60\_11: What are the worst months for service from the grid? (#11/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 4    Invalid: 3899    Minimum: 11    Maximum: 11  
 Type: Discrete    Decimal: 0    Width: 3    Range: 11 - 11    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	4	100%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3899	

**C60\_12: What are the worst months for service from the grid? (#12/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 4    Invalid: 3899    Minimum: 12    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 12 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.60. What are the worst months for service from the mini-grid?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	4	100%
888	Don't know	0	0%
Sysmiss		3899	

**C610:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		179	65.8%
2		93	34.2%
Sysmiss		3631	

**C61\_C66\_COUNT: Ss-MTF-C.2-C61\_C66\_count****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		179	65.8%
2		93	34.2%
Sysmiss		3631	

### SETOFSSMTFC2C61\_C66: Typical and Worst Months of Electricity

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Continuous Width: 60 Range: - Format: character

### C67: What is your main back-up source of lighting during outages/blackouts of the gri

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 272 Invalid: 3631 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.67. What is your main back-up source of lighting during outages/blackouts of the grid?

### CATEGORIES

Value	Category	Cases	
1	Electric generator	41	15.1%
2	Rechargeable battery and storage devices (e.g.: car battery)	5	1.8%
3	Solar home system	1	0.4%
4	Solar Lantern/ solar lighting system	25	9.2%
5	Pico-hydro	0	0%
6	Kerosene lamp	0	0%
7	Fuel-based lighting/Jack'o (Jargo) Lantern	0	0%
8	Dry cell (Non-rechargeable) battery/torch/flashlight lighting	137	50.4%
9	Candle	7	2.6%
111	No back-up source	50	18.4%
112	other	6	2.2%
Sysmiss		3631	

**C67\_OTHER: What is your main back-up source of lighting during outages/blackouts of the gri****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 23 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

C.67. What is your main back-up source of lighting during outages/blackouts of the grid? Other

## CATEGORIES

Value	Category	Cases	
		3897	99.8%
Cellphone light		2	0.1%
Chinese light		1	0%
Phone light		1	0%
Rechargeable flashlight		1	0%
Rechargeable light		1	0%

**C68: What is your main back-up source of electricity for appliances (including mobile****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 266 Invalid: 3637 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.68. What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid?

## CATEGORIES

Value	Category	Cases	
1	Local mini grid connection	24	9%
2	Electric generator	37	13.9%
3	Rechargeable battery and storage devices (e.g.: car battery)	2	0.8%
4	Solar home system	0	0%
5	Solar Lantern/ solar lighting system	10	3.8%
111	No back-up source	193	72.6%
112	other	0	0%

Sysmiss

3637

**C68\_OTHER: What is your main back-up source of electricity for appliances (including mobile****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903 Invalid:

Type: Discrete Width: 10 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

C.68. What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid? Other

## CATEGORIES

Value	Category	Cases	
		3898	99.9%
Candle		1	0%
Flashlight		2	0.1%
Na		2	0.1%

**C69: How do you request for repairs in electricity service or file a complaint?****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 268 Invalid: 3635 Minimum: 1 Maximum: 6

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.69. How do you request for repairs in electricity service or file a complaint?

## CATEGORIES

Value	Category	Cases	
1	Call/SMS utility company	148	55.2%
2	Call a local technician	47	17.5%
3	Send a letter/email	3	1.1%
4	Social media	0	0%
5	Talk to community representative	20	7.5%
6	No system to request repairs/file complaint	50	18.7%
7	other	0	0%

Sysmiss

3635

**C69\_OTHER: How do you request for repairs in electricity service or file a complaint? (Othe****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903 Invalid:

Type: Discrete Width: 16 Range: - Format: character

**Questions and instructions**

LITERAL QUESTION

C.69. How do you request for repairs in electricity service or file a complaint? Other

CATEGORIES

Value	Category	Cases	
		3899	99.9%
Don't have a say		1	0%
No problem		3	0.1%

**C70: When there is a blackout in your community, who do you usually approach for assi****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 270 Invalid: 3633 Minimum: 1 Maximum: 3

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.70. When there is a blackout in your community, who do you usually approach for assistance?

CATEGORIES

Value	Category	Cases	
1	The power company	186	68.9%
2	Someone not from power company	21	7.8%
3	No one, we wait until power returns	63	23.3%
Sysmiss		3633	

**C70B:****Data file: MTF\_HH\_Main.dta**

## Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 35 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
		3633	93.1%
No one, we wait until power returns		63	1.6%
Someone not from power company		21	0.5%
The power company		186	4.8%

## C71: The last time you asked for assistance, how many days after you contacted \${C70b

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 207 Invalid: 3696 Minimum: 0 Maximum: 1440  
 Type: Discrete Decimal: 0 Width: 4 Range: 0 - 1440 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.71. The last time you asked for assistance, how many days after you contacted [C.70 response] did they come to fix the problem?

### CATEGORIES

Value	Category	Cases	
0		9	4.3%
1		31	15%
2		15	7.2%
3		9	4.3%
4		2	1%
5		4	1.9%
6		2	1%
7		2	1%
8		1	0.5%
10		1	0.5%
12		3	1.4%
14		1	0.5%
15		2	1%
20		1	0.5%

24		79	38.2%
30		2	1%
45		1	0.5%
48		22	10.6%
72		3	1.4%
96		4	1.9%
144		4	1.9%
192		1	0.5%
240		1	0.5%
576		1	0.5%
888		2	1%
1008		1	0.5%
1125		1	0.5%
1152		1	0.5%
1440		1	0.5%
Sysmiss		3696	

## C72: In the last 12 months, did any of your appliances get damaged because the voltag

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 271 Invalid: 3632 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

C.72. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?

#### CATEGORIES

Value	Category	Cases	
1	Yes	78	28.8%
2	No	193	71.2%
Sysmiss		3632	

## C73A: What are the most serious problems you experience with your mini grid electricit

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 270 Invalid: 3633 Minimum: 1 Maximum: 111

Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 111    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

a. First

C.73. What are the most serious problems you experience with your mini grid electricity?

## CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	32	11.9%
2	Low/high voltage problems or voltage fluctuations	63	23.3%
3	Unpredictable interruptions	39	14.4%
4	Unexpectedly high bills	4	1.5%
5	High cost of electricity	12	4.4%
6	Do not trust the supplier	0	0%
7	Cannot power large appliances	11	4.1%
8	Maintenance/service problems	11	4.1%
9	Unpredictable bills	0	0%
10	Electrical shocks	13	4.8%
11	Power theft from my house	1	0.4%
111	No problems	84	31.1%
112	other	0	0%
Sysmiss		3633	

**C73A\_OTHER: What are the most serious problems you experience with your mini grid electricit**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903    Invalid:

Type: Discrete    Width: 31    Range: -    Format: character

**Questions and instructions**

## LITERAL QUESTION

a. First

C.73. What are the most serious problems you experience with your mini grid electricity? Other

## CATEGORIES

Value	Category	Cases	
		3901	99.9%
Short time		1	0%

We don't get it when we need it		1	0%
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### C73B: What are the second most serious problems you experience with your mini grid ele

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 271 Invalid: 3632 Minimum: 1 Maximum: 111  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

b. Second

C.73. What are the most serious problems you experience with your mini grid electricity?

CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	15	5.5%
2	Low/high voltage problems or voltage fluctuations	32	11.8%
3	Unpredictable interruptions	33	12.2%
4	Unexpectedly high bills	2	0.7%
5	High cost of electricity	9	3.3%
6	Do not trust the supplier	5	1.8%
7	Cannot power large appliances	14	5.2%
8	Maintenance/service problems	11	4.1%
9	Unpredictable bills	1	0.4%
10	Electrical shocks	16	5.9%
11	Power theft from my house	1	0.4%
111	No problems	132	48.7%
112	other	0	0%
Sysmiss		3632	

### C73B\_OTHER: What are the second most serious problems you experience with your mini grid ele

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 46 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

b. Second

C.73. What are the most serious problems you experience with your mini grid electricity? Other

### CATEGORIES

Value	Category	Cases	
		3902	100%
If missionary travels, there is no electricity		1	0%

## C74: In the last 12 months, did any household members die or have permanent limb (bod

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 271 Invalid: 3632 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.74. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity?

### CATEGORIES

Value	Category	Cases	
1	Yes	1	0.4%
2	No	270	99.6%
Sysmiss		3632	

## C75: In the last 12 months, did the household use a generator to supply electricity?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.75. In the last 12 months, did the household use a generator to supply electricity?

### CATEGORIES

Value	Category	Cases	
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1	Yes	285	7.7%
2	No	3432	92.3%
Sysmiss		186	

### C76: How many generators does your household use to supply electricity? If multiple g

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 888  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.76. How many generators does your household use to supply electricity?

##### CATEGORIES

Value	Category	Cases	
1		248	87%
2		26	9.1%
3		4	1.4%
4		1	0.4%
888		6	2.1%
Sysmiss		3618	

### C77: Do you share this generator with other households?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.77. Do you share this generator with other households?

##### CATEGORIES

Value	Category	Cases	
1	Yes	59	20.7%
2	No	226	79.3%
Sysmiss		3618	

**C78: How many households are sharing electricity from this generator?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 59 Invalid: 3844 Minimum: 0 Maximum: 45  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 45 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.78. How many households are sharing electricity from this generator?

## CATEGORIES

Value	Category	Cases	
0		2	3.4%
1		12	20.3%
2		21	35.6%
3		7	11.9%
4		6	10.2%
5		5	8.5%
6		2	3.4%
7		2	3.4%
20		1	1.7%
45		1	1.7%
Sysmiss		3844	

**C79: Enumerator Observation:What is the capacity of the MAIN generator? Read name pl****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 285 Invalid: 3618 Minimum: 0.150000005960464 Maximum: 5000  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.150000005960464 - 5000 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0.150000005960464		1	0.4%
0.349999994039536		3	1.1%
0.5		1	0.4%
1		6	2.1%

1.39999997615814		2	0.7%
1.5		46	16.1%
2		7	2.5%
2.20000004768372		1	0.4%
2.29999995231628		1	0.4%
2.5		75	26.3%
2.70000004768372		5	1.8%
3		7	2.5%
3.5		23	8.1%
3.70000004768372		1	0.4%
4		2	0.7%
5		28	9.8%
5.5		15	5.3%
6		1	0.4%
6.5		3	1.1%
7		1	0.4%
14		1	0.4%
15		1	0.4%
17		1	0.4%
35		1	0.4%
50		1	0.4%
115		1	0.4%
212		1	0.4%
220		2	0.7%
350		1	0.4%
500		1	0.4%
888		42	14.7%
950		1	0.4%
2700		1	0.4%
5000		1	0.4%
Sysmiss		3618	

## INTERVIEWER INSTRUCTIONS

C.79. Enumerator Observation: What is the capacity of the generator?

**C80\_1: In the last 12 months, in which months did you use this generator or did you use**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 255    Invalid: 3648    Minimum: 1    Maximum: 888

Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 888    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	43	16.9%
2	February	13	5.1%
3	March	4	1.6%
4	April	3	1.2%
5	May	2	0.8%
6	June	5	2%
7	July	0	0%
8	August	5	2%
9	September	1	0.4%
10	October	4	1.6%
11	November	1	0.4%
12	December	1	0.4%
111	Used all year	162	63.5%
888	Don't know	11	4.3%
Sysmiss		3648	

**C80\_2: In the last 12 months, in which months did you use this generator or did you use**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 70    Invalid: 3833    Minimum: 2    Maximum: 12  
Type: Discrete    Decimal: 0    Width: 3    Range: 2 - 12    Format: Numeric**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	33	47.1%
3	March	7	10%

4	April	3	4.3%
5	May	4	5.7%
6	June	1	1.4%
7	July	5	7.1%
8	August	1	1.4%
9	September	4	5.7%
10	October	4	5.7%
11	November	4	5.7%
12	December	4	5.7%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3833	

### C80\_3: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 56 Invalid: 3847 Minimum: 3 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 111 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	23	41.1%
4	April	0	0%
5	May	3	5.4%
6	June	4	7.1%
7	July	1	1.8%
8	August	3	5.4%
9	September	2	3.6%
10	October	6	10.7%
11	November	6	10.7%
12	December	7	12.5%
111	Used all year	1	1.8%
888	Don't know	0	0%

Sysmiss		3847	
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### C80\_4: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 35 Invalid: 3868 Minimum: 4 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 12 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	6	17.1%
5	May	0	0%
6	June	3	8.6%
7	July	4	11.4%
8	August	1	2.9%
9	September	3	8.6%
10	October	4	11.4%
11	November	6	17.1%
12	December	8	22.9%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3868	

### C80\_5: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 24 Invalid: 3879 Minimum: 5 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 12 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	4	16.7%
6	June	0	0%
7	July	3	12.5%
8	August	4	16.7%
9	September	1	4.2%
10	October	3	12.5%
11	November	3	12.5%
12	December	6	25%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3879	

### C80\_6: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 15 Invalid: 3888 Minimum: 6 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 6 - 12 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	3	20%
7	July	0	0%

8	August	3	20%
9	September	4	26.7%
10	October	0	0%
11	November	2	13.3%
12	December	3	20%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3888	

### C80\_7: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 12 Invalid: 3891 Minimum: 7 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 7 - 12 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	3	25%
8	August	0	0%
9	September	3	25%
10	October	4	33.3%
11	November	0	0%
12	December	2	16.7%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3891	

**C80\_8: In the last 12 months, in which months did you use this generator or did you use**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 9 Invalid: 3894 Minimum: 8 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 8 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	3	33.3%
9	September	0	0%
10	October	3	33.3%
11	November	3	33.3%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3894	

**C80\_9: In the last 12 months, in which months did you use this generator or did you use**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 8 Invalid: 3895 Minimum: 9 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 9 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	3	37.5%
10	October	0	0%
11	November	3	37.5%
12	December	2	25%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3895	

### C80\_10: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 6    Invalid: 3897    Minimum: 10    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 10 - 12    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	3	50%

11	November	0	0%
12	December	3	50%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3897	

### C80\_11: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2    Invalid: 3901    Minimum: 11    Maximum: 11  
 Type: Discrete    Decimal: 0    Width: 3    Range: 11 - 11    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	2	100%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3901	

### C80\_12: In the last 12 months, in which months did you use this generator or did you use

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2    Invalid: 3901    Minimum: 12    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 12 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	2	100%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3901	

**C80\_13: In the last 12 months, in which months did you use this generator or did you use**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1    Invalid: 3902    Minimum: 111    Maximum: 111  
 Type: Discrete    Decimal: 0    Width: 3    Range: 111 - 111    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.80. In the last 12 months, in which months did you use this generator or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%

3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	0	0%
111	Used all year	1	100%
888	Don't know	0	0%
Sysmiss		3902	

### C81: How many days per month did you typically use this generator?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.81. How many days per month did you typically use this generator?

CATEGORIES

Value	Category	Cases	
1		4	1.4%
2		11	3.9%
3		11	3.9%
4		12	4.2%
5		25	8.8%
6		2	0.7%
7		12	4.2%
8		10	3.5%
9		1	0.4%
10		11	3.9%
11		1	0.4%
12		14	4.9%
14		5	1.8%

15		15	5.3%
16		4	1.4%
18		2	0.7%
20		11	3.9%
22		2	0.7%
24		4	1.4%
25		3	1.1%
26		1	0.4%
28		3	1.1%
30		47	16.5%
31		26	9.1%
90		1	0.4%
888		47	16.5%
Sysmiss		3618	

### C82\_1: In the last 12 months, what did your household use this generator for? (#1/5)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 218 Invalid: 3685 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 3 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.82. In the last 12 months, what did your household use this generator for?

##### CATEGORIES

Value	Category	Cases	
1	Lighting	210	96.3%
2	Appliances	5	2.3%
3	Home-based income activity	3	1.4%
888	Don't know	0	0%
889	other	0	0%
Sysmiss		3685	

### C82\_2: In the last 12 months, what did your household use this generator for? (#2/5)

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 153 Invalid: 3750 Minimum: 2 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 3 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.82. In the last 12 months, what did your household use this generator for?

## CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Appliances	150	98%
3	Home-based income activity	3	2%
888	Don't know	0	0%
889	other	0	0%
Sysmiss		3750	

**C82\_3: In the last 12 months, what did your household use this generator for? (#3/5)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 30 Invalid: 3873 Minimum: 3 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 3 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.82. In the last 12 months, what did your household use this generator for?

## CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Appliances	0	0%
3	Home-based income activity	30	100%
888	Don't know	0	0%
889	other	0	0%
Sysmiss		3873	

**C83: How many years have you used this generator?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.83. How many years have you used this generator?

## CATEGORIES

Value	Category	Cases	
1		122	42.8%
2		71	24.9%
3		52	18.2%
4		15	5.3%
5		14	4.9%
6		2	0.7%
7		2	0.7%
8		3	1.1%
9		1	0.4%
10		1	0.4%
15		1	0.4%
888		1	0.4%
Sysmiss		3618	

**C84: Does your household own the generator?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.84. Does your household own the generator?

## CATEGORIES

Value	Category	Cases	
1	Yes	276	96.8%
2	No	9	3.2%
Sysmiss		3618	

**C85: Who owns the generator?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 9 Invalid: 3894 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.85. Who owns the generator?

CATEGORIES

Value	Category	Cases	
1	Other Household	6	66.7%
2	Community organization	0	0%
3	Private person/entity	3	33.3%
888	Don't know	0	0%
889	other	0	0%
Sysmiss		3894	

**C86: Do you rent the generator or use it for free?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 9 Invalid: 3894 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.86. Do you rent the generator or use it for free?

CATEGORIES

Value	Category	Cases	
1	Rent	1	11.1%
2	Use for free	8	88.9%
Sysmiss		3894	

**C87: How do you pay for electricity services from the generator?****Data file:** MTF\_HH\_Main.dta

## Overview

Valid: 1 Invalid: 3902 Minimum: 1 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 1 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.87. How do you pay for electricity services from the generator?

### CATEGORIES

Value	Category	Cases	
1	Fixed payment (per month or week)	1	100%
2	Charge by number of lights/appliances	0	0%
3	Charge per kWh	0	0%
4	Pay for fuel only	0	0%
5	other	0	0%
Sysmiss		3902	

## C88: In the months that you use it, how much did you pay to use the generator each mo

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 1 Invalid: 3902 Minimum: 3960 Maximum: 3960  
 Type: Discrete Decimal: 0 Width: 4 Range: 3960 - 3960 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.88. In the months that you use it, how much did you pay to use the generator each month?

### CATEGORIES

Value	Category	Cases	
3960		1	100%
Sysmiss		3902	

## C89: How much did you pay to purchase the generator?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 276 Invalid: 3627 Minimum: 75 Maximum: 1942500  
 Type: Continuous Decimal: 0 Width: 7 Range: 75 - 1942500 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.89. How much did you pay to purchase the generator?

## C90: In the last 12 months, how much did you pay for repairs/parts/maintenance of the

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 9    Invalid: 3894    Minimum: 0    Maximum: 5550  
 Type: Discrete    Decimal: 0    Width: 4    Range: 0 - 5550    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.90. In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator?

### CATEGORIES

Value	Category	Cases	
0		2	22.2%
888		6	66.7%
5550		1	11.1%
Sysmiss		3894	

## C91: What fuel is used to power the generator?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 285    Invalid: 3618    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 2    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.91. What fuel is used to power the generator?

### CATEGORIES

Value	Category	Cases	
1	Diesel	41	14.4%
2	Gasoline	244	85.6%
888	Don't know	0	0%
889	other	0	0%
Sysmiss		3618	

**C92: In the last 30 days, what was the total quantity of fuel used to power the gener****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 285 Invalid: 3618 Minimum: 0 Maximum: 35000  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 35000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.92. In the last 30 days, what was the total quantity of fuel used to power the generator?

**C93: Do you pay for the fuel used to power the generator?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.93. Do you pay for the fuel used to power the generator?

## CATEGORIES

Value	Category	Cases	
1	Yes	278	97.5%
2	No	7	2.5%
Sysmiss		3618	

**C94: In the last 30 days, how much did your household spend on fuel for this generato****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 278 Invalid: 3625 Minimum: 0 Maximum: 480000  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 480000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.94. In the last 30 days, how much did your household spend on fuel for this generator?

**C95: Is the generator the household's main source of electricity?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 278 Invalid: 3625 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.95. Is the generator the household's main source of electricity?

## CATEGORIES

Value	Category	Cases	
1	Yes	109	39.2%
2	No	169	60.8%
Sysmiss		3625	

**C96: Are there certain months/seasons of the year when less fuel is available to power****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 284 Invalid: 3619 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.96. Are there certain months/seasons of the year when less fuel is available to power the generator?

## CATEGORIES

Value	Category	Cases	
1	Yes	75	26.4%
2	No	209	73.6%
Sysmiss		3619	

**C97\_1: What are the worst months of fuel availability for the generator? (#1/13)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 75 Invalid: 3828 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

#### CATEGORIES

Value	Category	Cases	
1	January	21	28%
2	February	6	8%
3	March	4	5.3%
4	April	5	6.7%
5	May	5	6.7%
6	June	3	4%
7	July	4	5.3%
8	August	7	9.3%
9	September	0	0%
10	October	2	2.7%
11	November	1	1.3%
12	December	1	1.3%
888	Don't know	16	21.3%
Sysmiss		3828	

### C97\_2: What are the worst months of fuel availability for the generator? (#2/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 53 Invalid: 3850 Minimum: 2 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 12 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	13	24.5%
3	March	2	3.8%
4	April	5	9.4%
5	May	5	9.4%
6	June	5	9.4%

7	July	6	11.3%
8	August	1	1.9%
9	September	6	11.3%
10	October	1	1.9%
11	November	4	7.5%
12	December	5	9.4%
888	Don't know	0	0%
Sysmiss		3850	

### C97\_3: What are the worst months of fuel availability for the generator? (#3/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 35 Invalid: 3868 Minimum: 3 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 12 Format: Numeric

#### Questions and instructions

#### LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	6	17.1%
4	April	1	2.9%
5	May	2	5.7%
6	June	6	17.1%
7	July	4	11.4%
8	August	5	14.3%
9	September	1	2.9%
10	October	4	11.4%
11	November	1	2.9%
12	December	5	14.3%
888	Don't know	0	0%
Sysmiss		3868	

### C97\_4: What are the worst months of fuel availability for the generator? (#4/13)

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 19 Invalid: 3884 Minimum: 4 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	3	15.8%
5	May	0	0%
6	June	1	5.3%
7	July	5	26.3%
8	August	4	21.1%
9	September	4	21.1%
10	October	0	0%
11	November	1	5.3%
12	December	1	5.3%
888	Don't know	0	0%
Sysmiss		3884	

**C97\_5: What are the worst months of fuel availability for the generator? (#5/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 11 Invalid: 3892 Minimum: 5 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%

4	April	0	0%
5	May	3	27.3%
6	June	0	0%
7	July	1	9.1%
8	August	4	36.4%
9	September	2	18.2%
10	October	0	0%
11	November	0	0%
12	December	1	9.1%
888	Don't know	0	0%
Sysmiss		3892	

### C97\_6: What are the worst months of fuel availability for the generator? (#6/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 8    Invalid: 3895    Minimum: 6    Maximum: 10  
 Type: Discrete    Decimal: 0    Width: 3    Range: 6 - 10    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	2	25%
7	July	0	0%
8	August	1	12.5%
9	September	3	37.5%
10	October	2	25%
11	November	0	0%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3895	

**C97\_7: What are the worst months of fuel availability for the generator? (#7/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 5 Invalid: 3898 Minimum: 9 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 9 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	1	20%
10	October	3	60%
11	November	1	20%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3898	

**C97\_8: What are the worst months of fuel availability for the generator? (#8/13)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3 Invalid: 3900 Minimum: 10 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 10 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	1	33.3%
11	November	2	66.7%
12	December	0	0%
888	Don't know	0	0%
Sysmiss		3900	

### C97\_9: What are the worst months of fuel availability for the generator? (#9/13)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1    Invalid: 3902    Minimum: 12    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 12 - 12    Format: Numeric

#### Questions and instructions

#### LITERAL QUESTION

C.97. What are the worst months of fuel availability for the generator?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%

12	December	1	100%
888	Don't know	0	0%
Sysmiss		3902	

**C982:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		210	73.7%
2		75	26.3%
Sysmiss		3618	

**C98\_100\_COUNT: Ss-MTF-C.3-C98\_100\_count****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		210	73.7%
2		75	26.3%
Sysmiss		3618	

**SETOFSSMTFC3C98\_100: Worst Months of Electricity****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Continuous Width: 60 Range: - Format: character

**C101: In the last 12 months, did any of your appliances get damaged because the voltag**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.101. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?

## CATEGORIES

Value	Category	Cases	
1	Yes	72	25.3%
2	No	213	74.7%
Sysmiss		3618	

**C102A: What are the most serious problems you experience with the generator?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 281 Invalid: 3622 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

a. First

C.102. What are the most serious problems you experience with the generator?

## CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	11	3.9%
2	Low/high voltage problems or voltage fluctuations	30	10.7%
3	Unpredictable interruptions	11	3.9%
4	Unexpectedly high bills	2	0.7%
5	High cost of electricity	40	14.2%
6	Do not trust the supplier	2	0.7%
7	Cannot power large appliances	16	5.7%
8	Maintenance/service problems	65	23.1%
9	Unpredictable bills	0	0%

10	Electrical shocks	19	6.8%
11	Power theft from my house	0	0%
111	No problems	85	30.2%
112	other	0	0%
Sysmiss		3622	

### C102A\_OTHER: What are the most serious problems you experience with the generator? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 30 Range: - Format: character

#### Questions and instructions

LITERAL QUESTION

a. First

C.102. What are the most serious problems you experience with the generator? Other

CATEGORIES

Value	Category	Cases	
		3900	99.9%
Fuel consumption & maintenance		1	0%
Noise		1	0%
Plug and filters		1	0%

### C102B: What are the second most serious problems you experience with the generator?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 279 Invalid: 3624 Minimum: 1 Maximum: 111  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

b. Second

C.102. What are the most serious problems you experience with the generator?

CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	12	4.3%

2	Low/high voltage problems or voltage fluctuations	9	3.2%
3	Unpredictable interruptions	5	1.8%
4	Unexpectedly high bills	4	1.4%
5	High cost of electricity	24	8.6%
6	Do not trust the supplier	2	0.7%
7	Cannot power large appliances	11	3.9%
8	Maintenance/service problems	64	22.9%
9	Unpredictable bills	0	0%
10	Electrical shocks	10	3.6%
11	Power theft from my house	2	0.7%
111	No problems	136	48.7%
112	other	0	0%
Sysmiss		3624	

### C103: In the last 12 months, did any household members die or have permanent limb (bod

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 285 Invalid: 3618 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.103. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator?

##### CATEGORIES

Value	Category	Cases	
1	Yes	1	0.4%
2	No	284	99.6%
Sysmiss		3618	

### C104: In the last 12 months, did the household use any rechargeable batteries, such as

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.104. In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity?

### CATEGORIES

Value	Category	Cases	
1	Yes	36	1%
2	No	3681	99%
Sysmiss		186	

## C105\_1: In the last 12 months, in which months did you use rechargeable batteries or did

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

### CATEGORIES

Value	Category	Cases	
1	January	5	13.9%
2	February	1	2.8%
3	March	5	13.9%
4	April	1	2.8%
5	May	0	0%
6	June	1	2.8%
7	July	0	0%
8	August	0	0%
9	September	1	2.8%
10	October	1	2.8%
11	November	0	0%
12	December	0	0%
111	Used all year	21	58.3%
888	Don't know	0	0%
Sysmiss		3867	

**C105\_2: In the last 12 months, in which months did you use rechargeable batteries or did****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 13 Invalid: 3890 Minimum: 2 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	5	38.5%
3	March	1	7.7%
4	April	4	30.8%
5	May	1	7.7%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	1	7.7%
11	November	1	7.7%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3890	

**C105\_3: In the last 12 months, in which months did you use rechargeable batteries or did****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 8 Invalid: 3895 Minimum: 3 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	2	25%
4	April	1	12.5%
5	May	1	12.5%
6	June	1	12.5%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	2	25%
12	December	1	12.5%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3895	

#### **C105\_4: In the last 12 months, in which months did you use rechargeable batteries or did**

Data file: MTF\_HH\_Main.dta

#### **Overview**

Valid: 5    Invalid: 3898    Minimum: 4    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 4 - 12    Format: Numeric

#### **Questions and instructions**

#### LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	2	40%
5	May	0	0%
6	June	1	20%
7	July	1	20%
8	August	0	0%
9	September	0	0%
10	October	0	0%

11	November	0	0%
12	December	1	20%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3898	

### C105\_5: In the last 12 months, in which months did you use rechargeable batteries or did

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 4    Invalid: 3899    Minimum: 5    Maximum: 9  
 Type: Discrete    Decimal: 0    Width: 3    Range: 5 - 9    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	1	25%
6	June	0	0%
7	July	1	25%
8	August	1	25%
9	September	1	25%
10	October	0	0%
11	November	0	0%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3899	

### C105\_6: In the last 12 months, in which months did you use rechargeable batteries or did

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3 Invalid: 3900 Minimum: 8 Maximum: 10  
 Type: Discrete Decimal: 0 Width: 3 Range: 8 - 10 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	1	33.3%
9	September	1	33.3%
10	October	1	33.3%
11	November	0	0%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3900	

**C105\_7: In the last 12 months, in which months did you use rechargeable batteries or did**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1 Invalid: 3902 Minimum: 11 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 11 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%

3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	1	100%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3902	

### C105\_8: In the last 12 months, in which months did you use rechargeable batteries or did

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1    Invalid: 3902    Minimum: 12    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 12 - 12    Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.105. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	1	100%
111	Used all year	0	0%

888	Don't know	0	0%
Sysmiss		3902	

### C106\_1: In the last 12 months, what did your household use rechargeable batteries for? (

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.106. In the last 12 months, what did your household use rechargeable batteries for?

CATEGORIES

Value	Category	Cases	
1	Lighting	28	77.8%
2	Appliances	8	22.2%
3	Home-based income activity	0	0%
4	other	0	0%
Sysmiss		3867	

### C106\_2: In the last 12 months, what did your household use rechargeable batteries for? (

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 10 Invalid: 3893 Minimum: 2 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 2 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.106. In the last 12 months, what did your household use rechargeable batteries for?

CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Appliances	10	100%
3	Home-based income activity	0	0%
4	other	0	0%
Sysmiss		3893	

**C107: Does your household have an inverter that allows you to use AC appliances?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.107. Does your household have an inverter that allows you to use AC appliances?

## CATEGORIES

Value	Category	Cases	
1	Yes	7	19.4%
2	No	29	80.6%
Sysmiss		3867	

**C108: What is the capacity of the inverter?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 7 Invalid: 3896 Minimum: 50 Maximum: 500  
 Type: Discrete Decimal: 0 Width: 3 Range: 50 - 500 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.108. What is the capacity of the inverter?

## CATEGORIES

Value	Category	Cases	
50		2	28.6%
60		1	14.3%
150		1	14.3%
200		1	14.3%
300		1	14.3%
500		1	14.3%
Sysmiss		3896	

**C109: What is the total number of rechargeable batteries that you use in a typical mon****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 35 Invalid: 3868 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

C.109. What is the total number of rechargeable batteries that you use in a typical month?

CATEGORIES

Value	Category	Cases	
1		21	60%
2		7	20%
3		2	5.7%
4		1	2.9%
5		1	2.9%
70		1	2.9%
100		1	2.9%
888		1	2.9%
Sysmiss		3868	

**SETOFSSMTFC4C110\_C113: Details of each rechargeable battery****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 62 Range: - Format: character

**Questions and instructions**

CATEGORIES

Value	Category	Cases	
		3886	99.6%
uuid:06938c8c-019d-42be-a04f-edbbad315098/Ss-MTF-C.4-C110_C113		1	0%
uuid:0f299cf7-76f2-45f6-8204-2a7faa7920ac/Ss-MTF-C.4-C110_C113		1	0%
uuid:21f0e1ba-c946-43da-ac87-0f3994885cbb/Ss-MTF-C.4-C110_C113		1	0%
uuid:304b99b1-6653-4011-94cd-90e2ed541fb5/Ss-MTF-C.4-C110_C113		1	0%
uuid:38344178-f97f-4b79-bd78-13719086b588/Ss-MTF-C.4-C110_C113		1	0%
uuid:44058662-e616-419b-8ca8-089bc5ea0625/Ss-MTF-C.4-C110_C113		1	0%

uuid:474ff71d-c77d-454c-afd5-db7650a7c764/Ss-MTF-C.4-C110_C113		1	0%
uuid:6056e77d-2c6a-436b-99c6-ce09ef0e11b6/Ss-MTF-C.4-C110_C113		1	0%
uuid:61aed0c5-6226-4000-b142-390d0817af96/Ss-MTF-C.4-C110_C113		1	0%
uuid:80d18ecf-6b3e-4812-a414-6f7dbf30089c/Ss-MTF-C.4-C110_C113		1	0%
uuid:8e7600c2-4639-405e-bf8c-e21bc16bd022/Ss-MTF-C.4-C110_C113		1	0%
uuid:a2e116a6-d77e-4e41-97be-3b8ec5ad81d3/Ss-MTF-C.4-C110_C113		1	0%
uuid:a60726a7-e3e3-4327-8b3f-227a5b0dbe5b/Ss-MTF-C.4-C110_C113		1	0%
uuid:a77f5e3a-d139-46e9-ac84-c15b21ef55c9/Ss-MTF-C.4-C110_C113		1	0%
uuid:c711ae87-6d6b-4256-9531-965ef7cd9ee4/Ss-MTF-C.4-C110_C113		1	0%
uuid:ebca7a59-54f8-461f-9490-2c670ca2805f/Ss-MTF-C.4-C110_C113		1	0%
uuid:ef3b1504-735f-4cf9-abfd-ca3d96c19ade/Ss-MTF-C.4-C110_C113		1	0%

## C114: Do you pay to recharge the battery?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

C.114. Do you pay to recharge the battery?

#### CATEGORIES

Value	Category	Cases	
1	Yes	21	58.3%
2	No	15	41.7%
Sysmiss		3867	

## C115: How much does your household spend in a typical month to recharge the batteries

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 21 Invalid: 3882 Minimum: 80 Maximum: 1550  
 Type: Discrete Decimal: 0 Width: 4 Range: 80 - 1550 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

C.115. How much does your household spend in a typical month to recharge the batteries (in total)?

## CATEGORIES

Value	Category	Cases	
80		1	4.8%
100		1	4.8%
150		1	4.8%
200		3	14.3%
225		1	4.8%
250		1	4.8%
400		3	14.3%
450		1	4.8%
500		2	9.5%
600		1	4.8%
800		2	9.5%
850		1	4.8%
888		1	4.8%
900		1	4.8%
1550		1	4.8%
Sysmiss		3882	

### C116: What is the electricity source used to recharge the battery?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.116. What is the electricity source used to recharge the battery?

## CATEGORIES

Value	Category	Cases	
1	National grid	3	8.3%
2	Local mini-grid	2	5.6%
3	Electric generator	22	61.1%
4	Solar	7	19.4%
5	other	2	5.6%
Sysmiss		3867	

**C116\_OTHER: What is the electricity source used to recharge the battery? (Other)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903    Invalid:  
 Type: Discrete    Width: 21    Range: -    Format: character

**Questions and instructions**

LITERAL QUESTION

C.116. What is the electricity source used to recharge the battery? Other

CATEGORIES

Value	Category	Cases	
		3901	99.9%
Charging booth		1	0%
Run it on motor bikbe		1	0%

**C116B:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903    Invalid:  
 Type: Discrete    Width: 18    Range: -    Format: character

**Questions and instructions**

CATEGORIES

Value	Category	Cases	
		3867	99.1%
Electric generator		22	0.6%
Local mini-grid		2	0.1%
National grid		3	0.1%
Other		2	0.1%
Solar		7	0.2%

**C117: Is battery recharging limited by availability of electricity from \${C116b}?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 36    Invalid: 3867    Minimum: 1    Maximum: 888  
 Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 888    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.117. Is battery recharging limited by availability of electricity from [SOURCE FROM C.116]?

### CATEGORIES

Value	Category	Cases	
1	Yes	10	27.8%
2	No	22	61.1%
888	Don't know	4	11.1%
Sysmiss		3867	

## C118: How many hours can you use rechargeable batteries for electricity supply each da

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 35 Invalid: 3868 Minimum: 0 Maximum: 24  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 24 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.118. How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to?

### CATEGORIES

Value	Category	Cases	
0		1	2.9%
2		1	2.9%
3		4	11.4%
4		4	11.4%
5		3	8.6%
6		3	8.6%
7		1	2.9%
8		2	5.7%
9		1	2.9%
10		2	5.7%
11		1	2.9%
12		10	28.6%
16		1	2.9%
24		1	2.9%
Sysmiss		3868	

**C119: How many hours do you actually use rechargeable batteries for electricity supply****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 35    Invalid: 3868    Minimum: 0    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.119. How many hours do you actually use rechargeable batteries for electricity supply each day?

## CATEGORIES

Value	Category	Cases	
0		1	2.9%
2		2	5.7%
3		7	20%
4		3	8.6%
5		4	11.4%
6		3	8.6%
8		1	2.9%
10		4	11.4%
11		1	2.9%
12		9	25.7%
Sysmiss		3868	

**C120A: What is the first most serious problems you experience with the rechargeable bat****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 36    Invalid: 3867    Minimum: 1    Maximum: 111  
 Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 111    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

a. First

C.120. What are the most serious problems you experience with the rechargeable batteries?

## CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	5	13.9%

2	Too expensive	3	8.3%
3	Cannot power large appliances	7	19.4%
4	Recharging is not convenient	0	0%
5	Maintenance & repair is difficult	1	2.8%
6	Cannot recharge battery to full capacity	4	11.1%
111	No problems	16	44.4%
112	other	0	0%
Sysmiss		3867	

## C120B: What is the second most serious problems you experience with the rechargeable ba

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 36 Invalid: 3867 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

### Questions and instructions

LITERAL QUESTION

b. Second

C.120. What are the most serious problems you experience with the rechargeable batteries?

CATEGORIES

Value	Category	Cases	
1	Supply shortage/not enough hours of electricity	6	16.7%
2	Too expensive	2	5.6%
3	Cannot power large appliances	4	11.1%
4	Recharging is not convenient	1	2.8%
5	Maintenance & repair is difficult	0	0%
6	Cannot recharge battery to full capacity	1	2.8%
111	No problems	22	61.1%
112	other	0	0%
Sysmiss		3867	

## C121: In the last 12 months, did any household members die or have permanent limb (bod

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 36 Invalid: 3867 Minimum: 2 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.121. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the rechargeable batteries?

### CATEGORIES

Value	Category	Cases	
1	Yes	0	0%
2	No	36	100%
Sysmiss		3867	

## C122\_1: In the last 12 months, did the household use any of the following solar based de

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3716 Invalid: 187 Minimum: 1 Maximum: 4  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Solar Lantern	346	9.3%
2	Solar Lighting System	48	1.3%
3	Solar Home System	12	0.3%
4	None	3310	89.1%
Sysmiss		187	

### INTERVIEWER INSTRUCTIONS

C.122. Interviewer/CAPI check: In the last 12 months, did the household use any of the following solar based devices?  
Multiple responses possible

## C5C122\_1: How many total solar based devises do you have (of any type)?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 95 Invalid: 3808 Minimum: 0 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		9	9.5%
1		76	80%
2		10	10.5%
Sysmiss		3808	

### C123: How many solar home systems (SHS) do you have?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 12 Invalid: 3891 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.123. How many solar home systems (SHS) do you have?

CATEGORIES

Value	Category	Cases	
0		1	8.3%
1		8	66.7%
2		1	8.3%
3		2	16.7%
Sysmiss		3891	

### C124: How many solar lighting systems do you have?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 49 Invalid: 3854 Minimum: 1 Maximum: 32  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 32 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.124. How many solar lighting systems do you have?

CATEGORIES

Value	Category	Cases	
1		37	75.5%
2		6	12.2%

3		4	8.2%
4		1	2%
32		1	2%
Sysmiss		3854	

## C125: How many solar lanterns do you have?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 347 Invalid: 3556 Minimum: 1 Maximum: 350  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 350 Format: Numeric

### Questions and instructions

LITERAL QUESTION

C.125. How many solar lanterns do you have?

CATEGORIES

Value	Category	Cases	
1		150	43.2%
2		109	31.4%
3		50	14.4%
4		21	6.1%
5		9	2.6%
6		6	1.7%
7		1	0.3%
350		1	0.3%
Sysmiss		3556	

## C126\_145\_COUNT: Ss-MTF-C.5-C126\_145\_count

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 95 Invalid: 3808 Minimum: 0 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

### Questions and instructions

CATEGORIES

Value	Category	Cases	
0		9	9.5%

1		76	80%
2		10	10.5%
Sysmiss		3808	

### SETOFSSMTFC5C126\_145: Solar Based Devices

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Continuous Width: 61 Range: - Format: character

### C146: Are there certain months/seasons every year when the service is not as strong fr

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 406 Invalid: 3497 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.146. Are there certain months/seasons every year when the service is not as strong from [DEVICE]?

##### CATEGORIES

Value	Category	Cases	
1	Yes	143	35.2%
2	No	263	64.8%
Sysmiss		3497	

### C147\_1: What are the worst months for service from your main solar device? (#1/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 143 Invalid: 3760 Minimum: 1 Maximum: 888  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

##### CATEGORIES

Value	Category	Cases	
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1	January	3	2.1%
2	February	1	0.7%
3	March	0	0%
4	April	14	9.8%
5	May	21	14.7%
6	June	41	28.7%
7	July	34	23.8%
8	August	13	9.1%
9	September	9	6.3%
10	October	0	0%
11	November	0	0%
12	December	0	0%
111	All year	2	1.4%
888	Don't know	5	3.5%
Sysmiss		3760	

### C147\_2: What are the worst months for service from your main solar device? (#2/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 134    Invalid: 3769    Minimum: 2    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 2 - 12    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	3	2.2%
3	March	0	0%
4	April	0	0%
5	May	9	6.7%
6	June	21	15.7%
7	July	42	31.3%
8	August	36	26.9%
9	September	14	10.4%
10	October	8	6%
11	November	0	0%

12	December	1	0.7%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3769	

### C147\_3: What are the worst months for service from your main solar device? (#3/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 119 Invalid: 3784 Minimum: 3 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 11 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	3	2.5%
4	April	0	0%
5	May	0	0%
6	June	7	5.9%
7	July	21	17.6%
8	August	41	34.5%
9	September	35	29.4%
10	October	10	8.4%
11	November	2	1.7%
12	December	0	0%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3784	

### C147\_4: What are the worst months for service from your main solar device? (#4/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 64 Invalid: 3839 Minimum: 7 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 7 - 11 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	6	9.4%
8	August	21	32.8%
9	September	25	39.1%
10	October	11	17.2%
11	November	1	1.6%
12	December	0	0%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3839	

### C147\_5: What are the worst months for service from your main solar device? (#5/14)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 34 Invalid: 3869 Minimum: 8 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 8 - 11 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%

6	June	0	0%
7	July	0	0%
8	August	6	17.6%
9	September	16	47.1%
10	October	10	29.4%
11	November	2	5.9%
12	December	0	0%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3869	

### C147\_6: What are the worst months for service from your main solar device? (#6/14)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 16 Invalid: 3887 Minimum: 9 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 9 - 12 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	4	25%
10	October	8	50%
11	November	2	12.5%
12	December	2	12.5%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3887	

**C147\_7: What are the worst months for service from your main solar device? (#7/14)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 4    Invalid: 3899    Minimum: 10    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 10 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	2	50%
11	November	1	25%
12	December	1	25%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3899	

**C147\_8: What are the worst months for service from your main solar device? (#8/14)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1    Invalid: 3902    Minimum: 12    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 12 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.147. What are the worst months for service from [DEVICE]?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	1	100%
111	All year	0	0%
888	Don't know	0	0%
Sysmiss		3902	

**C148C:**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 407 Invalid: 3496 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		264	64.9%
2		143	35.1%
Sysmiss		3496	

**C148\_150\_COUNT: Ss-MTF-C.5-C148\_150\_count**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 407 Invalid: 3496 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		264	64.9%
2		143	35.1%
Sysmiss		3496	

### SETOFSSMTFC5C148\_150: Worst Months of Electricity

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Continuous Width: 61 Range: - Format: character

### C151: In the last 12 months, did any household members die or have permanent limb (bod

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 404 Invalid: 3499 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.151. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the [DEVICE]?

### CATEGORIES

Value	Category	Cases	
1	Yes	1	0.2%
2	No	403	99.8%
Sysmiss		3499	

### C152: Are there any appliances you do not have that you would like to have?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 406 Invalid: 3497 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.152. Is there any device you do not have that you would like to have?

#### CATEGORIES

Value	Category	Cases	
1	Yes	240	59.1%
2	No	166	40.9%
Sysmiss		3497	

### C153\_1: What appliances would you most like to have? (#1/9)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 240 Invalid: 3663 Minimum: 1 Maximum: 889  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 889 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.153. What devices would you most like to have?

#### CATEGORIES

Value	Category	Cases	
1	Television	168	70%
2	Fan	20	8.3%
3	Refrigerator	22	9.2%
4	Radio	12	5%
5	Tablet/laptop/computer	3	1.3%
6	Mobile phone charger	2	0.8%
7	Air conditioning	6	2.5%
888	Don't know/refuse to answer	2	0.8%
889	other	5	2.1%
Sysmiss		3663	

### C153\_2: What appliances would you most like to have? (#2/9)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 190 Invalid: 3713 Minimum: 2 Maximum: 889  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 889 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.153. What devices would you most like to have?

#### CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	141	74.2%
3	Refrigerator	19	10%
4	Radio	11	5.8%
5	Tablet/laptop/computer	2	1.1%
6	Mobile phone charger	6	3.2%
7	Air conditioning	5	2.6%
888	Don't know/refuse to answer	0	0%
889	other	6	3.2%
Sysmiss		3713	

### C153\_3: What appliances would you most like to have? (#3/9)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 124 Invalid: 3779 Minimum: 3 Maximum: 889  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 889 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.153. What devices would you most like to have?

#### CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	0	0%
3	Refrigerator	79	63.7%
4	Radio	33	26.6%
5	Tablet/laptop/computer	3	2.4%
6	Mobile phone charger	5	4%
7	Air conditioning	1	0.8%
888	Don't know/refuse to answer	0	0%
889	other	3	2.4%
Sysmiss		3779	

**C153\_4: What appliances would you most like to have? (#4/9)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 49 Invalid: 3854 Minimum: 4 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 7 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.153. What devices would you most like to have?

## CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	0	0%
3	Refrigerator	0	0%
4	Radio	39	79.6%
5	Tablet/laptop/computer	2	4.1%
6	Mobile phone charger	6	12.2%
7	Air conditioning	2	4.1%
888	Don't know/refuse to answer	0	0%
889	other	0	0%
Sysmiss		3854	

**C153\_5: What appliances would you most like to have? (#5/9)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 15 Invalid: 3888 Minimum: 5 Maximum: 889  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 889 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.153. What devices would you most like to have?

## CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	0	0%
3	Refrigerator	0	0%

4	Radio	0	0%
5	Tablet/laptop/computer	9	60%
6	Mobile phone charger	2	13.3%
7	Air conditioning	3	20%
888	Don't know/refuse to answer	0	0%
889	other	1	6.7%
Sysmiss		3888	

### C153\_6: What appliances would you most like to have? (#6/9)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 6 Invalid: 3897 Minimum: 6 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 3 Range: 6 - 7 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.153. What devices would you most like to have?

##### CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	0	0%
3	Refrigerator	0	0%
4	Radio	0	0%
5	Tablet/laptop/computer	0	0%
6	Mobile phone charger	5	83.3%
7	Air conditioning	1	16.7%
888	Don't know/refuse to answer	0	0%
889	other	0	0%
Sysmiss		3897	

### C153\_7: What appliances would you most like to have? (#7/9)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 4 Invalid: 3899 Minimum: 7 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 3 Range: 7 - 7 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.153. What devices would you most like to have?

#### CATEGORIES

Value	Category	Cases	
1	Television	0	0%
2	Fan	0	0%
3	Refrigerator	0	0%
4	Radio	0	0%
5	Tablet/laptop/computer	0	0%
6	Mobile phone charger	0	0%
7	Air conditioning	4	100%
888	Don't know/refuse to answer	0	0%
889	other	0	0%
Sysmiss		3899	

### C153\_OTHER: What appliances would you most like to have? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 41 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

C.153. What devices would you most like to have? Other

#### CATEGORIES

Value	Category	Cases	
		3888	99.6%
Better Generator and stronger light bulbs		1	0%
Dstv		1	0%
DVD player		1	0%
Electric cooking pox		1	0%
Electric Iron		1	0%
Electric iron & stove		1	0%
Electric Stove		1	0%
Flat Screen TV & DSTv		1	0%
Generator		2	0.1%

Heater & Iron		1	0%
Iron		1	0%
Macrowave		1	0%
Solar Plate		1	0%
Stereo system		1	0%

### C154: Overall, how satisfied are you with the service provided by the main solar device

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 406 Invalid: 3497 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.154. Overall, how satisfied are you with the service provided by the main solar device?

##### CATEGORIES

Value	Category	Cases	
1	Very satisfied	75	18.5%
2	Somewhat satisfied	172	42.4%
3	Neutral	21	5.2%
4	Unsatisfied	122	30%
5	Very unsatisfied	16	3.9%
Sysmiss		3497	

### C155: In what year did you get your first solar device?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 406 Invalid: 3497  
 Type: Continuous Width: 10 Range: - Format: Date

#### Questions and instructions

##### LITERAL QUESTION

C.155. In what year did you get your first solar device?

### C156: Has solar been your main source of lighting/electricity since $\{C155\}$ ?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 401 Invalid: 3502 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 2 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.156. Has solar been your main source of lighting/electricity since [YEAR in C.155]?

### CATEGORIES

Value	Category	Cases	
1	Yes	285	71.1%
2	No	116	28.9%
888	Don't know	0	0%
Sysmiss		3502	

## C157: What was your main source of lighting/electricity when it was not a solar device

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 116 Invalid: 3787 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.157. What was your main source of lighting/electricity when it was not a solar device?

### CATEGORIES

Value	Category	Cases	
1	Local mini grid connection	39	33.6%
2	Electric generator	18	15.5%
3	Rechargeable battery and storage devices (e.g.: car battery)	0	0%
4	Solar home system	0	0%
5	Solar Lantern/ solar lighting system	8	6.9%
7	Kerosene lamp	4	3.4%
8	Fuel-based lighting/Jack'o (Jargo) Lantern	5	4.3%
9	Dry cell (Non-rechargeable) battery/torch/flashlight lighting	12	10.3%
10	Candle	3	2.6%
111	No back-up source	26	22.4%
112	other	1	0.9%
Sysmiss		3787	

**C157\_OTHER: What was your main source of lighting/electricity when it was not a solar device**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 3903 Invalid:  
Type: Discrete Width: 18 Range: - Format: character**Questions and instructions**

## LITERAL QUESTION

C.157. What was your main source of lighting/electricity when it was not a solar device? Other

## CATEGORIES

Value	Category	Cases	
		3898	99.9%
Flashlight		1	0%
National grid		3	0.1%
National Mini grid		1	0%

**C158: Compared to the first time you used solar lighting, do you currently...**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 405 Invalid: 3498 Minimum: 1 Maximum: 888  
Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric**Questions and instructions**

## LITERAL QUESTION

C.158. Compared to the first time you used solar lighting, do you currently...

## CATEGORIES

Value	Category	Cases	
1	Use more solar lighting	169	41.7%
2	Use about the same solar lighting	135	33.3%
3	Use less solar lighting	89	22%
888	Don't know	12	3%
Sysmiss		3498	

**C159\_1: What appliances do you use today that you did not use with your first solar ligh****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 360 Invalid: 3543 Minimum: 1 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.159. What appliances do you use today that you did not use with your first solar lighting device?

## CATEGORIES

Value	Category	Cases	
1	Mobile phone charger	18	5%
2	Radio	16	4.4%
3	TV	4	1.1%
4	Fan	3	0.8%
5	Refrigerator	5	1.4%
6	No change	314	87.2%
7	other	0	0%
Sysmiss		3543	

**C159\_OTHER: What appliances do you use today that you did not use with your first solar ligh****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 37 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

C.159. What appliances do you use today that you did not use with your first solar lighting device? Other

## CATEGORIES

Value	Category	Cases	
		3884	99.7%
Able to charge mobile phone from home		1	0%
Electrical iron for clothes		1	0%
NA		2	0.1%
Na		3	0.1%
Sysmiss		7	

None		5	0.1%
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### C160: Of all the sources that you mentioned above, which is the source that you use th

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3653 Invalid: 250 Minimum: 1 Maximum: 9  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.160. Of all the sources that you mentioned above, which is the source that you use the most in your household?

##### CATEGORIES

Value	Category	Cases	
1	National Grid Connection	465	12.7%
2	Local Mini Grid connection	220	6%
3	Electric generator	113	3.1%
4	Solar Home System	19	0.5%
5	Solar Lantern/Lighting System	263	7.2%
6	Rechargeable Battery	48	1.3%
7	Dry-cell battery	2122	58.1%
8	No electricity	344	9.4%
9	other	59	1.6%
Sysmiss		250	

### C160\_OTHER: Of all the sources that you mentioned above, which is the source that you use th

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 23 Range: - Format: character

#### Questions and instructions

##### LITERAL QUESTION

C.160. Of all the sources that you mentioned above, which is the source that you use the most in your household? Other

##### CATEGORIES

Value	Category	Cases	
		3780	96.9%

Candle		1	0%
Candles		2	0.1%
Chinese light		1	0%
Flash light		1	0%
Flashlight		98	2.5%
Jack'o		2	0.1%
Jack'o lantern		1	0%
Jack'o Lantern		1	0%
Jacko lantern		2	0.1%
Jacko Lartern		1	0%
Jacko light		1	0%
Jackson Lantern		1	0%
Jago Lantern		1	0%
Jako Lantern		1	0%
Jargo lantern		3	0.1%
Jargo Lantern		2	0.1%
Sysmiss		1	
Phone light		1	0%
Phonemic light		1	0%
Rechargeable flashlight		1	0%

### C161: How many mobile phones do the household members own in total?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3710 Invalid: 193 Minimum: 0 Maximum: 888  
Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.161. How many mobile phones do the household members own in total?

CATEGORIES

Value	Category	Cases	
0		1365	36.8%
1		836	22.5%
2		709	19.1%
3		328	8.8%
4		223	6%
5		105	2.8%

6		63	1.7%
7		37	1%
8		19	0.5%
9		9	0.2%
10		6	0.2%
11		4	0.1%
12		1	0%
15		1	0%
20		1	0%
111		1	0%
888		2	0.1%
Sysmiss		193	

### C163: Are members of your household able to charge all their mobile phones as often as

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2344 Invalid: 1559 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.163. Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?

##### CATEGORIES

Value	Category	Cases	
1	Yes	905	38.6%
2	No	1435	61.2%
888	Don't know	4	0.2%
Sysmiss		1559	

### C164: Can you charge at least one mobile phone to full charge everyday inside your dwe

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1435 Invalid: 2468 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

C.164. Can you charge at least one mobile phone to full charge everyday inside your dwelling?

## CATEGORIES

Value	Category	Cases	
1	Yes	34	2.4%
2	No	1401	97.6%
Sysmiss		2468	

**C165: Can you charge at least one mobile phone to full charge in 3 days inside your dw**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1398 Invalid: 2505 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.165. Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?

## CATEGORIES

Value	Category	Cases	
1	Yes	17	1.2%
2	No	1381	98.8%
Sysmiss		2505	

**C166: How many mobile phones of your household members do you charge outside your dwel**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1397 Invalid: 2506 Minimum: 0 Maximum: 600  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 600 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.166. How many mobile phones of your household members do you charge outside your dwelling?

## CATEGORIES

Value	Category	Cases	
0		19	1.4%
1		668	47.8%

2		409	29.3%
3		154	11%
4		86	6.2%
5		30	2.1%
6		17	1.2%
7		7	0.5%
8		2	0.1%
9		2	0.1%
12		1	0.1%
15		1	0.1%
600		1	0.1%
Sysmiss		2506	

### C167: Do members of your household have to go more than one-half a kilometer (walk mor

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1378 Invalid: 2525 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.167. Do members of your household have to go more than one-half a kilometer (walk more than 5 minutes) to charge your mobile phones outside your dwelling?

##### CATEGORIES

Value	Category	Cases	
1	Yes	865	62.8%
2	No	513	37.2%
Sysmiss		2525	

### C168: How much does your household spend each month (in total) on charging the mobile

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1376 Invalid: 2527 Minimum: 0 Maximum: 3300  
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3300 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.168. How much does your household spend each month (in total) on charging the mobile phone(s) outside of your dwelling?

### C169\_1: Select the appliances available in the household: (#1/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3084 Invalid: 819 Minimum: 1 Maximum: 40  
Type: Discrete Decimal: 0 Width: 2 Range: 1 - 40 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	275	8.9%
2	Fluorescent Tube	54	1.8%
3	Compact Fluorescent Light (CFL) Bulb	91	3%
4	LED Light Bulb	161	5.2%
5	Light Bulb, Other/Unknown type	288	9.3%
6	Torch/flashlight/ lantern	1989	64.5%
7	Radio/CD Players/sound system	14	0.5%
8	VCD/DVD	16	0.5%
9	Fan	57	1.8%
10	Rice cooker	0	0%
11	Refrigerator	1	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	1	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%

25	Freezer	3	0.1%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	2	0.1%
31	Regular mobile phone charger	2	0.1%
32	Electric battery charger	0	0%
33	Electronic Tablet	0	0%
34	Satellite dish	0	0%
35	Radio	82	2.7%
36	Black & White TV	1	0%
37	Regular Color TV	8	0.3%
38	Flat color TV	1	0%
39	Electric hair dryer	0	0%
40	other	38	1.2%
Sysmiss		819	

## C169\_2: Select the appliances available in the household: (#2/40)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 1189 Invalid: 2714 Minimum: 3 Maximum: 40  
 Type: Discrete Decimal: 0 Width: 2 Range: 3 - 40 Format: Numeric

### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	1	0.1%
4	LED Light Bulb	1	0.1%
5	Light Bulb, Other/Unknown type	2	0.2%
6	Torch/flashlight/ lantern	226	19%
7	Radio/CD Players/sound system	177	14.9%
8	VCD/DVD	70	5.9%
9	Fan	335	28.2%

10	Rice cooker	2	0.2%
11	Refrigerator	11	0.9%
12	Microwave oven	1	0.1%
13	Electric Toaster	0	0%
14	Iron	3	0.3%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	2	0.2%
21	Dishwasher	0	0%
22	Computer	5	0.4%
23	Printer	1	0.1%
24	Electric water cooler	0	0%
25	Freezer	24	2%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	1	0.1%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	6	0.5%
31	Regular mobile phone charger	13	1.1%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	0.1%
34	Satellite dish	0	0%
35	Radio	242	20.4%
36	Black & White TV	2	0.2%
37	Regular Color TV	49	4.1%
38	Flat color TV	13	1.1%
39	Electric hair dryer	0	0%
40	other	1	0.1%
Sysmiss		2714	

### C169\_3: Select the appliances available in the household: (#3/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 732    Invalid: 3171    Minimum: 7    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 7 - 38    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

#### Appliance type

#### CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	56	7.7%
8	VCD/DVD	73	10%
9	Fan	162	22.1%
10	Rice cooker	0	0%
11	Refrigerator	39	5.3%
12	Microwave oven	2	0.3%
13	Electric Toaster	0	0%
14	Iron	24	3.3%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	2	0.3%
18	Air cooler (Central Air)	3	0.4%
19	Space Heater	0	0%
20	Water heater	2	0.3%
21	Dishwasher	0	0%
22	Computer	18	2.5%
23	Printer	1	0.1%
24	Electric water cooler	0	0%
25	Freezer	56	7.7%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	9	1.2%
31	Regular mobile phone charger	29	4%
32	Electric battery charger	1	0.1%
33	Electronic Tablet	0	0%

34	Satellite dish	0	0%
35	Radio	74	10.1%
36	Black & White TV	9	1.2%
37	Regular Color TV	127	17.3%
38	Flat color TV	45	6.1%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3171	

#### C169\_4: Select the appliances available in the household: (#4/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 481    Invalid: 3422    Minimum: 8    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 8 - 38    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	21	4.4%
9	Fan	83	17.3%
10	Rice cooker	1	0.2%
11	Refrigerator	20	4.2%
12	Microwave oven	4	0.8%
13	Electric Toaster	0	0%
14	Iron	20	4.2%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	2	0.4%
18	Air cooler (Central Air)	0	0%

19	Space Heater	0	0%
20	Water heater	1	0.2%
21	Dishwasher	0	0%
22	Computer	29	6%
23	Printer	2	0.4%
24	Electric water cooler	0	0%
25	Freezer	28	5.8%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	12	2.5%
31	Regular mobile phone charger	21	4.4%
32	Electric battery charger	1	0.2%
33	Electronic Tablet	0	0%
34	Satellite dish	3	0.6%
35	Radio	49	10.2%
36	Black & White TV	6	1.2%
37	Regular Color TV	121	25.2%
38	Flat color TV	57	11.9%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3422	

### C169\_5: Select the appliances available in the household: (#5/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 281    Invalid: 3622    Minimum: 9    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 9 - 38    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%

4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	16	5.7%
10	Rice cooker	2	0.7%
11	Refrigerator	13	4.6%
12	Microwave oven	4	1.4%
13	Electric Toaster	0	0%
14	Iron	15	5.3%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	4	1.4%
18	Air cooler (Central Air)	2	0.7%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	13	4.6%
23	Printer	1	0.4%
24	Electric water cooler	0	0%
25	Freezer	22	7.8%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	1	0.4%
28	Blender	1	0.4%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	15	5.3%
31	Regular mobile phone charger	22	7.8%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	0.4%
34	Satellite dish	2	0.7%
35	Radio	20	7.1%
36	Black & White TV	12	4.3%
37	Regular Color TV	67	23.8%
38	Flat color TV	48	17.1%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3622	

**C169\_6: Select the appliances available in the household: (#6/40)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 154 Invalid: 3749 Minimum: 10 Maximum: 40  
 Type: Discrete Decimal: 0 Width: 2 Range: 10 - 40 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	1	0.6%
11	Refrigerator	5	3.2%
12	Microwave oven	3	1.9%
13	Electric Toaster	0	0%
14	Iron	9	5.8%
15	Washing machine	1	0.6%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	1	0.6%
18	Air cooler (Central Air)	3	1.9%
19	Space Heater	0	0%
20	Water heater	3	1.9%
21	Dishwasher	0	0%
22	Computer	10	6.5%
23	Printer	5	3.2%
24	Electric water cooler	0	0%
25	Freezer	8	5.2%
26	Electric hot water pot/kettle	1	0.6%

27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	10	6.5%
31	Regular mobile phone charger	13	8.4%
32	Electric battery charger	1	0.6%
33	Electronic Tablet	0	0%
34	Satellite dish	4	2.6%
35	Radio	18	11.7%
36	Black & White TV	0	0%
37	Regular Color TV	28	18.2%
38	Flat color TV	27	17.5%
39	Electric hair dryer	1	0.6%
40	other	2	1.3%
Sysmiss		3749	

### C169\_7: Select the appliances available in the household: (#7/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 94 Invalid: 3809 Minimum: 11 Maximum: 38  
 Type: Discrete Decimal: 0 Width: 2 Range: 11 - 38 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	1	1.1%

12	Microwave oven	1	1.1%
13	Electric Toaster	1	1.1%
14	Iron	4	4.3%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	3	3.2%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	1	1.1%
21	Dishwasher	0	0%
22	Computer	5	5.3%
23	Printer	1	1.1%
24	Electric water cooler	0	0%
25	Freezer	10	10.6%
26	Electric hot water pot/kettle	3	3.2%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	5	5.3%
31	Regular mobile phone charger	11	11.7%
32	Electric battery charger	1	1.1%
33	Electronic Tablet	2	2.1%
34	Satellite dish	4	4.3%
35	Radio	3	3.2%
36	Black & White TV	2	2.1%
37	Regular Color TV	15	16%
38	Flat color TV	21	22.3%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3809	

### C169\_8: Select the appliances available in the household: (#8/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 59    Invalid: 3844    Minimum: 12    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 12 - 38    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

#### Appliance type

#### CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	1	1.7%
13	Electric Toaster	0	0%
14	Iron	2	3.4%
15	Washing machine	1	1.7%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	2	3.4%
21	Dishwasher	0	0%
22	Computer	1	1.7%
23	Printer	2	3.4%
24	Electric water cooler	0	0%
25	Freezer	1	1.7%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	1	1.7%
28	Blender	2	3.4%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	4	6.8%
31	Regular mobile phone charger	8	13.6%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	1.7%

34	Satellite dish	2	3.4%
35	Radio	10	16.9%
36	Black & White TV	0	0%
37	Regular Color TV	8	13.6%
38	Flat color TV	13	22%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3844	

### C169\_9: Select the appliances available in the household: (#9/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 39 Invalid: 3864 Minimum: 14 Maximum: 39  
 Type: Discrete Decimal: 0 Width: 2 Range: 14 - 39 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	1	2.6%
15	Washing machine	1	2.6%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%

19	Space Heater	0	0%
20	Water heater	1	2.6%
21	Dishwasher	0	0%
22	Computer	2	5.1%
23	Printer	0	0%
24	Electric water cooler	1	2.6%
25	Freezer	2	5.1%
26	Electric hot water pot/kettle	1	2.6%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	1	2.6%
31	Regular mobile phone charger	6	15.4%
32	Electric battery charger	1	2.6%
33	Electronic Tablet	0	0%
34	Satellite dish	5	12.8%
35	Radio	2	5.1%
36	Black & White TV	0	0%
37	Regular Color TV	3	7.7%
38	Flat color TV	11	28.2%
39	Electric hair dryer	1	2.6%
40	other	0	0%
Sysmiss		3864	

### C169\_10: Select the appliances available in the household: (#10/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 25 Invalid: 3878 Minimum: 16 Maximum: 38  
 Type: Discrete Decimal: 0 Width: 2 Range: 16 - 38 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%

4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	1	4%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	1	4%
23	Printer	2	8%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	3	12%
31	Regular mobile phone charger	2	8%
32	Electric battery charger	0	0%
33	Electronic Tablet	2	8%
34	Satellite dish	3	12%
35	Radio	3	12%
36	Black & White TV	0	0%
37	Regular Color TV	3	12%
38	Flat color TV	5	20%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3878	

**C169\_11: Select the appliances available in the household: (#11/40)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 17    Invalid: 3886    Minimum: 22    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 22 - 38    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	1	5.9%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	1	5.9%
26	Electric hot water pot/kettle	2	11.8%

27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	3	17.6%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	5.9%
34	Satellite dish	2	11.8%
35	Radio	3	17.6%
36	Black & White TV	0	0%
37	Regular Color TV	3	17.6%
38	Flat color TV	1	5.9%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3886	

### C169\_12: Select the appliances available in the household: (#12/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 15 Invalid: 3888 Minimum: 23 Maximum: 38  
 Type: Discrete Decimal: 0 Width: 2 Range: 23 - 38 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%

12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	1	6.7%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	2	13.3%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	1	6.7%
31	Regular mobile phone charger	0	0%
32	Electric battery charger	1	6.7%
33	Electronic Tablet	1	6.7%
34	Satellite dish	1	6.7%
35	Radio	1	6.7%
36	Black & White TV	0	0%
37	Regular Color TV	1	6.7%
38	Flat color TV	6	40%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3888	

### C169\_13: Select the appliances available in the household: (#13/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 11    Invalid: 3892    Minimum: 30    Maximum: 40  
 Type: Discrete    Decimal: 0    Width: 2    Range: 30 - 40    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

#### Appliance type

#### CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	3	27.3%
31	Regular mobile phone charger	1	9.1%
32	Electric battery charger	0	0%
33	Electronic Tablet	0	0%

34	Satellite dish	1	9.1%
35	Radio	1	9.1%
36	Black & White TV	0	0%
37	Regular Color TV	2	18.2%
38	Flat color TV	1	9.1%
39	Electric hair dryer	1	9.1%
40	other	1	9.1%
Sysmiss		3892	

### C169\_14: Select the appliances available in the household: (#14/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 7    Invalid: 3896    Minimum: 31    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 31 - 38    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%

19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	1	14.3%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	14.3%
34	Satellite dish	2	28.6%
35	Radio	1	14.3%
36	Black & White TV	0	0%
37	Regular Color TV	1	14.3%
38	Flat color TV	1	14.3%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3896	

### C169\_15: Select the appliances available in the household: (#15/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 6    Invalid: 3897    Minimum: 32    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 32 - 38    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%

4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	0	0%
32	Electric battery charger	1	16.7%
33	Electronic Tablet	0	0%
34	Satellite dish	1	16.7%
35	Radio	0	0%
36	Black & White TV	0	0%
37	Regular Color TV	1	16.7%
38	Flat color TV	3	50%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3897	

**C169\_16: Select the appliances available in the household: (#16/40)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3    Invalid: 3900    Minimum: 33    Maximum: 40  
 Type: Discrete    Decimal: 0    Width: 2    Range: 33 - 40    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%

27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	0	0%
32	Electric battery charger	0	0%
33	Electronic Tablet	1	33.3%
34	Satellite dish	0	0%
35	Radio	1	33.3%
36	Black & White TV	0	0%
37	Regular Color TV	0	0%
38	Flat color TV	0	0%
39	Electric hair dryer	0	0%
40	other	1	33.3%
Sysmiss		3900	

### C169\_17: Select the appliances available in the household: (#17/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2    Invalid: 3901    Minimum: 37    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 37 - 38    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%

12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	0	0%
32	Electric battery charger	0	0%
33	Electronic Tablet	0	0%
34	Satellite dish	0	0%
35	Radio	0	0%
36	Black & White TV	0	0%
37	Regular Color TV	1	50%
38	Flat color TV	1	50%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3901	

### C169\_18: Select the appliances available in the household: (#18/40)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1    Invalid: 3902    Minimum: 38    Maximum: 38  
 Type: Discrete    Decimal: 0    Width: 2    Range: 38 - 38    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

Appliance type

### CATEGORIES

Value	Category	Cases	
1	Incandescent Light Bulb	0	0%
2	Fluorescent Tube	0	0%
3	Compact Fluorescent Light (CFL) Bulb	0	0%
4	LED Light Bulb	0	0%
5	Light Bulb, Other/Unknown type	0	0%
6	Torch/flashlight/ lantern	0	0%
7	Radio/CD Players/sound system	0	0%
8	VCD/DVD	0	0%
9	Fan	0	0%
10	Rice cooker	0	0%
11	Refrigerator	0	0%
12	Microwave oven	0	0%
13	Electric Toaster	0	0%
14	Iron	0	0%
15	Washing machine	0	0%
16	Sewing machine	0	0%
17	Air cooler (External Unit)	0	0%
18	Air cooler (Central Air)	0	0%
19	Space Heater	0	0%
20	Water heater	0	0%
21	Dishwasher	0	0%
22	Computer	0	0%
23	Printer	0	0%
24	Electric water cooler	0	0%
25	Freezer	0	0%
26	Electric hot water pot/kettle	0	0%
27	Electric stove/range	0	0%
28	Blender	0	0%
29	Electric food processor	0	0%
30	Smartphone (internet phone) charger	0	0%
31	Regular mobile phone charger	0	0%
32	Electric battery charger	0	0%
33	Electronic Tablet	0	0%

34	Satellite dish	0	0%
35	Radio	0	0%
36	Black & White TV	0	0%
37	Regular Color TV	0	0%
38	Flat color TV	1	100%
39	Electric hair dryer	0	0%
40	other	0	0%
Sysmiss		3902	

### C169\_OTHER: Select the appliances available in the household: (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 37 Range: - Format: character

#### Questions and instructions

LITERAL QUESTION

Appliance type

CATEGORIES

Value	Category	Cases	
		3860	99%
Candles		1	0%
Chinese Light		1	0%
Have none of the mentioned appliances		1	0%
Jargo lantern		2	0.1%
Jargo Lantern		1	0%
N/A		5	0.1%
Sysmiss		4	
None		9	0.2%
None of the above		11	0.3%
None of the above mentioned		1	0%
Projector		1	0%
Solar home system		1	0%
Solar Lantern		2	0.1%
Speakers		1	0%
Vacuum cleaner		1	0%
Water Dispenser		1	0%

**C169\_L\_CNT:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 18  
 Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 18    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		633	17%
1		1895	51%
2		457	12.3%
3		251	6.8%
4		200	5.4%
5		127	3.4%
6		60	1.6%
7		35	0.9%
8		20	0.5%
9		14	0.4%
10		8	0.2%
11		2	0.1%
12		4	0.1%
13		4	0.1%
14		1	0%
15		3	0.1%
16		1	0%
17		1	0%
18		1	0%
Sysmiss		186	

**C169\_RPT\_COUNT: Ss-MTF-C169\_rpt\_count****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 18  
 Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 18    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		633	17%
1		1895	51%
2		457	12.3%
3		251	6.8%
4		200	5.4%
5		127	3.4%
6		60	1.6%
7		35	0.9%
8		20	0.5%
9		14	0.4%
10		8	0.2%
11		2	0.1%
12		4	0.1%
13		4	0.1%
14		1	0%
15		3	0.1%
16		1	0%
17		1	0%
18		1	0%
Sysmiss		186	

### SETOFSSMTFC169\_RPT: Lighting and Appliances

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:

Type: Continuous Width: 57 Range: - Format: character

### D2: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 544 Invalid: 3359 Minimum: 1 Maximum: 510

Type: Discrete Decimal: 0 Width: 3 Range: 1 - 510 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		336	61.8%
2		131	24.1%
3		45	8.3%
4		17	3.1%
5		4	0.7%
6		6	1.1%
7		2	0.4%
8		1	0.2%
10		1	0.2%
510		1	0.2%
Sysmiss		3359	

### INTERVIEWER INSTRUCTIONS

D.2. Enumerator: Record Respondent ID for this section

**RAND\_ONCE: Generates a random number between 0 and 100 to randomly select % of connection**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 544 Invalid: 3359 Minimum: 0.178869903087616 Maximum: 99.8739624023438  
 Type: Continuous Decimal: 0 Width: 18 Range: 0.178869903087616 - 99.8739624023438 Format: Numeric

**RAND\_CHOICE: Using rand\_once, calculates percentage of connection fee to use for WTP**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 544 Invalid: 3359 Minimum: 0.140000000596046 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.140000000596046 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0.140000000596046		99	18.2%
0.289999999165535		82	15.1%
0.430000007152557		91	16.7%

0.569999992847443		83	15.3%
0.709999978542328		96	17.6%
1		93	17.1%
Sysmiss		3359	

### CF: Multiplies random percentage by Connection Fee

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 544 Invalid: 3359 Minimum: 7.55999994277954 Maximum: 54  
 Type: Discrete Decimal: 0 Width: 17 Range: 7.55999994277954 - 54 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
7.55999994277954		99	18.2%
15.6599998474121		82	15.1%
23.2199993133545		91	16.7%
30.7800006866455		83	15.3%
38.3400001525879		96	17.6%
54		93	17.1%
Sysmiss		3359	

### D1: The randomly assigned grid connection fee is US\$ for this interview.

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 544 Invalid: 3359 Minimum: 7.55999994277954 Maximum: 54  
 Type: Discrete Decimal: 0 Width: 17 Range: 7.55999994277954 - 54 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
7.55999994277954		99	18.2%
15.6599998474121		82	15.1%
23.2199993133545		91	16.7%
30.7800006866455		83	15.3%
38.3400001525879		96	17.6%

54		93	17.1%
Sysmiss		3359	

## INTERVIEWER INSTRUCTIONS

D.1. Interviewer/CAPI check: Is the household connected to the national grid?

**D3: Would you be willing to pay US\$ \${D1} for an electricity connection?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 543 Invalid: 3360 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

D.3. Would you be willing to pay \${CF} for an electricity connection?

## CATEGORIES

Value	Category	Cases	
1	Yes	366	67.4%
2	No	177	32.6%
Sysmiss		3360	

**D4CALC: Calculates monthly payment**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 544 Invalid: 3359 Minimum: 2.51999998092651 Maximum: 18  
 Type: Discrete Decimal: 0 Width: 17 Range: 2.51999998092651 - 18 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
2.51999998092651		99	18.2%
5.21999979019165		82	15.1%
7.73999977111816		91	16.7%
10.2600002288818		83	15.3%
12.7799997329712		96	17.6%
18		93	17.1%
Sysmiss		3359	

**D4: Would you be willing to pay US\$ \${D1} for an electricity connection, if you were****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 177 Invalid: 3726 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

D.4. Would you be willing to pay \${CF} for an electricity connection, if you were given 3 months to make the payment?

## CATEGORIES

Value	Category	Cases	
1	Yes	47	26.6%
2	No	121	68.4%
888	Don't know	9	5.1%
Sysmiss		3726	

**D5: Why would you not accept the offer?****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 130 Invalid: 3773 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

D.5. Why would you not accept the offer?

## CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	120	92.3%
2	Do not need electricity	2	1.5%
3	Electricity service is unreliable	2	1.5%
4	Monthly fee is too expensive	6	4.6%
Sysmiss		3773	

**D6CALC: Calculates 6 month payment****Data file: MTF\_HH\_Main.dta**

**Overview**

Valid: 544 Invalid: 3359 Minimum: 1.25999999046326 Maximum: 9  
 Type: Discrete Decimal: 0 Width: 16 Range: 1.25999999046326 - 9 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1.25999999046326		99	18.2%
2.60999989509583		82	15.1%
3.86999988555908		91	16.7%
5.13000011444092		83	15.3%
6.3899998664856		96	17.6%
9		93	17.1%
Sysmiss		3359	

**D6: Would you be willing to pay US\$ \${D1} for an electricity connection, if you were**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 129 Invalid: 3774 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

D.6. Would you be willing to pay \${CF} for an electricity connection, if you were given 6 months to make the payment?

## CATEGORIES

Value	Category	Cases	
1	Yes	37	28.7%
2	No	88	68.2%
888	Don't know	4	3.1%
Sysmiss		3774	

**D7: Why would you not accept the offer?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 93 Invalid: 3810 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

D.7. Why would you not accept the offer?

### CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	87	93.5%
2	Do not need electricity	2	2.2%
3	Electricity service is unreliable	2	2.2%
4	Monthly fee is too expensive	2	2.2%
Sysmiss		3810	

## D8CALC: Calculates 12 month payment

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 544 Invalid: 3359 Minimum: 0.629999995231628 Maximum: 4.5  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.629999995231628 - 4.5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0.629999995231628		99	18.2%
1.30999994277954		82	15.1%
1.92999994754791		91	16.7%
2.5699999332428		83	15.3%
3.20000004768372		96	17.6%
4.5		93	17.1%
Sysmiss		3359	

## D8: Would you be willing to pay US\$ \${D1} for an electricity connection, if you were

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 93 Invalid: 3810 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

## LITERAL QUESTION

D.8. Would you be willing to pay \$ {CF} for an electricity connection, if you were given 12 months to make the payment?

## CATEGORIES

Value	Category	Cases	
1	Yes	19	20.4%
2	No	69	74.2%
888	Don't know	5	5.4%
Sysmiss		3810	

### D9: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 74 Invalid: 3829 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

D.9. Why would you not accept the offer?

## CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	70	94.6%
2	Do not need electricity	2	2.7%
3	Electricity service is unreliable	2	2.7%
4	Monthly fee is too expensive	0	0%
Sysmiss		3829	

### D10: If the connection fee were waived, would you get a grid connection?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 74 Invalid: 3829 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

D.10. If the connection fee were waived, would you get a grid connection?

## CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

1	Yes	32	43.2%
2	No	36	48.6%
888	Don't know	6	8.1%
Sysmiss		3829	

### D11: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 42 Invalid: 3861 Minimum: 1 Maximum: 4  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

D.11. Why would you not accept the offer?

CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	36	85.7%
2	Do not need electricity	2	4.8%
3	Electricity service is unreliable	2	4.8%
4	Monthly fee is too expensive	2	4.8%
Sysmiss		3861	

### D12: How much do you think it would cost to do all the internal electrical wiring in

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 543 Invalid: 3360 Minimum: 0 Maximum: 350000  
Type: Continuous Decimal: 0 Width: 6 Range: 0 - 350000 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

D.12. How much do you think it would cost to do all the internal electrical wiring in your house?

### D13: Think about the amount you would need to spend each month for electricity, not t

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 542 Invalid: 3361 Minimum: 0 Maximum: 100000  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 100000 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

D.13. ..Think about the amount you would need to spend each month for electricity, not the connection fee. How much would you need to spend each month for electricity?

## E2: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 2987 Invalid: 916 Minimum: 1 Maximum: 330  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 330 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		1981	66.3%
2		735	24.6%
3		179	6%
4		55	1.8%
5		18	0.6%
6		7	0.2%
7		8	0.3%
8		2	0.1%
10		1	0%
330		1	0%
Sysmiss		916	

### INTERVIEWER INSTRUCTIONS

E.2. Enumerator: Record Respondent ID for this section

## RAND\_ONCE\_S1: Random number generator

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3013 Invalid: 890 Minimum: 0.047734972089529 Maximum: 99.931510925293  
 Type: Continuous Decimal: 0 Width: 19 Range: 0.047734972089529 - 99.931510925293 Format: Numeric

**RAND\_CHOICE\_S1: Calculates percentage of solar devices cost to reflect in WTP****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3013 Invalid: 890 Minimum: 0.330000013113022 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.330000013113022 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0.330000013113022		1006	33.4%
0.660000026226044		986	32.7%
1		1021	33.9%
Sysmiss		890	

**RAND\_ONCE\_S2: Random number generator****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3013 Invalid: 890 Minimum: 0.00993348844349384 Maximum: 99.9902725219727  
 Type: Continuous Decimal: 0 Width: 20 Range: 0.00993348844349384 - 99.9902725219727 Format: Numeric

**RAND\_CHOICE\_S2: Using rand\_once\_s2, calculates which Tier of solar device to choose****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3013 Invalid: 890 Minimum: 20.75 Maximum: 69  
 Type: Discrete Decimal: 0 Width: 5 Range: 20.75 - 69 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
20.75		1489	49.4%
69		1524	50.6%
Sysmiss		890	

**CF\_S: Calculates cost of solar device based on random Teir and % calculated****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3013 Invalid: 890 Minimum: 6.84749984741211 Maximum: 69  
 Type: Discrete Decimal: 0 Width: 17 Range: 6.84749984741211 - 69 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
6.84749984741211		473	15.7%
13.6949996948242		483	16%
20.75		533	17.7%
22.7700004577637		533	17.7%
45.5400009155273		503	16.7%
69		488	16.2%
Sysmiss		890	

**E1: Rounds cost of CF\_s****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3013 Invalid: 890 Minimum: 6.84999990463257 Maximum: 69  
 Type: Discrete Decimal: 0 Width: 17 Range: 6.84999990463257 - 69 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
6.84999990463257		473	15.7%
13.6999998092651		483	16%
20.75		533	17.7%
22.7700004577637		533	17.7%
45.5400009155273		503	16.7%
69		488	16.2%
Sysmiss		890	

## INTERVIEWER INSTRUCTIONS

E.1. ENUMERATOR/CAPI check: Is the main source of electricity for this household

**DSCALC: Displays calculation of specific solar devise used****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 11 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		890	22.8%
D.Light D20		3013	77.2%

**E3: Would you be willing to pay US\$ \${E1} for this solar device?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3011 Invalid: 892 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

E.3. Would you be willing to pay \${CF} for this solar device?

## CATEGORIES

Value	Category	Cases	
1	Yes	1249	41.5%
2	No	1762	58.5%
Sysmiss		892	

**E4CALC: 6 months replacement cost****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3013 Invalid: 890 Minimum: 1.13999998569489 Maximum: 11.5  
 Type: Discrete Decimal: 0 Width: 16 Range: 1.13999998569489 - 11.5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

1.13999998569489		473	15.7%
2.27999997138977		483	16%
3.46000003814697		533	17.7%
3.79999995231628		533	17.7%
7.59000015258789		503	16.7%
11.5		488	16.2%
Sysmiss		890	

#### E4: Would you be willing to pay US\$ \${E1} for this solar device, if you were given 6

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 1762 Invalid: 2141 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

##### Questions and instructions

LITERAL QUESTION

E.4. Would you be willing to pay \${CF} for this solar device, if you were given 6 months to make the payment?

CATEGORIES

Value	Category	Cases	
1	Yes	414	23.5%
2	No	1331	75.5%
888	Don't know	17	1%
Sysmiss		2141	

#### E5: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 1348 Invalid: 2555 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

##### Questions and instructions

LITERAL QUESTION

E.5. Why would you not accept the offer?

CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	1270	94.2%

2	Do not need electricity	32	2.4%
3	Maintenance or servicing of device is not available	46	3.4%
Sysmiss		2555	

## E6CALC: 12 months repayment cost

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3013 Invalid: 890 Minimum: 0.569999992847443 Maximum: 5.75  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.569999992847443 - 5.75 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0.569999992847443		473	15.7%
1.13999998569489		483	16%
1.73000001907349		533	17.7%
1.89999997615814		533	17.7%
3.79999995231628		503	16.7%
5.75		488	16.2%
Sysmiss		890	

## E6: Would you be willing to pay US\$ \${E1} for this solar device, if you were given 1

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 1348 Invalid: 2555 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

E.6. Would you be willing to pay \${CF} for this solar device, if you were given 12 months to make the payment?

#### CATEGORIES

Value	Category	Cases	
1	Yes	392	29.1%
2	No	946	70.2%
888	Don't know	10	0.7%
Sysmiss		2555	

**E7: Why would you not accept the offer?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 955 Invalid: 2948 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

E.7. Why would you not accept the offer?

CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	890	93.2%
2	Do not need electricity	26	2.7%
3	Maintenance or servicing of device is not available	39	4.1%
Sysmiss		2948	

**E8CALC: 24 months repayment cost**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3013 Invalid: 890 Minimum: 0.28999999165535 Maximum: 2.88000011444092  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.28999999165535 - 2.88000011444092 Format: Numeric

**Questions and instructions**

CATEGORIES

Value	Category	Cases	
0.28999999165535		473	15.7%
0.569999992847443		483	16%
0.860000014305115		533	17.7%
0.949999988079071		533	17.7%
1.89999997615814		503	16.7%
2.88000011444092		488	16.2%
Sysmiss		890	

**E8: Would you be willing to pay US\$ \${E1} for this solar device, if you were given 2**

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 955 Invalid: 2948 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

E.8. Would you be willing to pay  $\${CF}$  for this solar device, if you were given 24 months to make the payment? This means that each month you will pay  $\${CF/24}$  per month for 24 months.

### CATEGORIES

Value	Category	Cases	
1	Yes	374	39.2%
2	No	568	59.5%
888	Don't know	13	1.4%
Sysmiss		2948	

## E9: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 582 Invalid: 3321 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

E.9. Why would you not accept the offer?

### CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	522	89.7%
2	Do not need electricity	25	4.3%
3	Maintenance or servicing of device is not available	35	6%
Sysmiss		3321	

## F1: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3668 Invalid: 235 Minimum: 1 Maximum: 340  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 340 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

F.1. Enumerator: Record Respondent ID for this section

#### CATEGORIES

Value	Category	Cases	
1		2316	63.1%
2		991	27%
3		241	6.6%
4		71	1.9%
5		26	0.7%
6		13	0.4%
7		5	0.1%
8		2	0.1%
9		1	0%
10		1	0%
340		1	0%
Sysmiss		235	

### F3\_1: Select all that your household used in the last 12 months: (#1/7)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3703 Invalid: 200 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

F.3. In the last 12 months, did you use [NAME FROM]

#### CATEGORIES

Value	Category	Cases	
1	Open wick lamp	15	0.4%
2	Hurricane lamp with glass cover	0	0%
3	Pressurized mantle lamp	0	0%
4	Jack'o or Jargo Lantern	105	2.8%
5	Candle	74	2%
6	None	3493	94.3%
7	other	16	0.4%
Sysmiss		200	

**F3\_2: Select all that your household used in the last 12 months: (#2/7)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 13 Invalid: 3890 Minimum: 5 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 5 - 7 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

F.3. In the last 12 months, did you use [NAME FROM]

## CATEGORIES

Value	Category	Cases	
1	Open wick lamp	0	0%
2	Hurricane lamp with glass cover	0	0%
3	Pressurized mantle lamp	0	0%
4	Jack'o or Jargo Lantern	0	0%
5	Candle	4	30.8%
6	None	2	15.4%
7	other	7	53.8%
Sysmiss		3890	

**F3\_OTHER: Select all that your household used in the last 12 months: (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 29 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

F.3. In the last 12 months, did you use [NAME FROM]. Other

## CATEGORIES

Value	Category	Cases	
		3874	99.3%
Chine she light		1	0%
Chines Light		1	0%
Chinese lantern		1	0%
Chinese light		5	0.1%

Chinese Light		5	0.1%
Chinese lights		2	0.1%
Chinese Lights		1	0%
Chinese touch light		1	0%
Dry cell battery flash light		1	0%
Fire Wood		1	0%
Flash light		1	0%
Flash lights		1	0%
Flashlight		2	0.1%
Flashlight and phone light		1	0%
Sola Lantern		1	0%
Solar light		1	0%
Task Light		1	0%
Touch light		1	0%
Touch light and Chinese light		1	0%

**F3\_L\_CNT:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		3693	99.4%
2		24	0.6%
Sysmiss		186	

**F\_RPT\_COUNT: Ss-MTF-F-F\_rpt\_count****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		3693	99.4%
2		24	0.6%
Sysmiss		186	

### SETOFSSMTFFF\_RPT: Kerosene, Fuel-Based and Candle Lighting

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Continuous Width: 56 Range: - Format: character

### F15: What is the main source of lighting the children who are currently enrolled in s

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

F.15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework?

### CATEGORIES

Value	Category	Cases	
1	Electric lighting/lamp	515	13.9%
2	Solar powered light source	139	3.7%
3	Battery-operated light source	854	23%
4	Street lighting	2	0.1%
5	Kerosene lamp	1	0%
6	Candles	23	0.6%
7	Biogas lamps	1	0%
8	Jack'o Lantern	30	0.8%
111	Studying and homework only during daylight hours	1678	45.1%
112	other	474	12.8%
Sysmiss		186	

**F15\_OTHER: What is the main source of lighting the children who are currently enrolled in s****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Continuous Width: 67 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

F.15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework? Other

**G0: In the last 12 months, did you use dry cell batteries to power any lights, radio****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	2974	80%
2	No	743	20%
Sysmiss		186	

**G1: Enumerator: Scan the household roster barcode to register the respondent ID for****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 2917 Invalid: 986 Minimum: 1 Maximum: 3000  
 Type: Discrete Decimal: 0 Width: 4 Range: 1 - 3000 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		1836	62.9%
2		795	27.3%

3		187	6.4%
4		64	2.2%
5		21	0.7%
6		7	0.2%
7		4	0.1%
8		2	0.1%
3000		1	0%
Sysmiss		986	

## INTERVIEWER INSTRUCTIONS

G.1. Enumerator: Record Respondent ID for this section

**G3\_1: In the last 12 months, did you use dry cell batteries to power...? (#1/6)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2971 Invalid: 932 Minimum: 1 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 112 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]

## CATEGORIES

Value	Category	Cases	
1	Lanterns	316	10.6%
2	Flashlights	2248	75.7%
3	Task lights	244	8.2%
4	Radio	101	3.4%
111	None	61	2.1%
112	other	1	0%
Sysmiss		932	

**G3\_2: In the last 12 months, did you use dry cell batteries to power...? (#2/6)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 502 Invalid: 3401 Minimum: 2 Maximum: 112  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 112 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]

#### CATEGORIES

Value	Category	Cases	
1	Lanterns	0	0%
2	Flashlights	35	7%
3	Task lights	3	0.6%
4	Radio	456	90.8%
111	None	1	0.2%
112	other	7	1.4%
Sysmiss		3401	

### G3\_3: In the last 12 months, did you use dry cell batteries to power...? (#3/6)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 16 Invalid: 3887 Minimum: 4 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 4 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]

#### CATEGORIES

Value	Category	Cases	
1	Lanterns	0	0%
2	Flashlights	0	0%
3	Task lights	0	0%
4	Radio	16	100%
111	None	0	0%
112	other	0	0%
Sysmiss		3887	

### G3\_OTHER: In the last 12 months, did you use dry cell batteries to power...? (Other)

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 13 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

G.3 In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]. Other

## CATEGORIES

Value	Category	Cases	
		3895	99.8%
Chinese light		2	0.1%
Chinese Light		2	0.1%
Mp3 player		1	0%
Phone		3	0.1%

**G3\_L\_CNT:**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2974 Invalid: 929 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3	0.1%
1		2469	83%
2		486	16.3%
3		16	0.5%
Sysmiss		929	

**G3\_RPT\_COUNT: Ss-MTF-G-G3\_rpt\_count**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2974 Invalid: 929 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3	0.1%
1		2469	83%
2		486	16.3%
3		16	0.5%
Sysmiss		929	

### SETOFSSMTFGG3\_RPT: Dry cells battery lighting sources

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Continuous Width: 57 Range: - Format: character

### H1: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3638 Invalid: 265 Minimum: 1 Maximum: 13062163  
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 13062163 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		1755	48.2%
2		1448	39.8%
3		292	8%
4		82	2.3%
5		33	0.9%
6		15	0.4%
7		6	0.2%
8		2	0.1%
10		1	0%
340		1	0%
540		1	0%
3000		1	0%

13062163		1	0%
Sysmiss		265	

## INTERVIEWER INSTRUCTIONS

H.1. Enumerator: Record Respondent ID for this section

**H2\_1: In the last 12 months, select all the fuel consumed by the household: (#1/17)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 17  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 17 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.2. Fuel Type

## CATEGORIES

Value	Category	Cases	
1	LPG/ cooking gas	11	0.3%
2	Wood purchased	170	4.6%
3	Wood collected	1734	46.7%
4	Charcoal	1774	47.7%
5	Solar	1	0%
6	Kerosene	0	0%
7	Animal waste/ Dung	0	0%
8	Crop Residue/ Plant Biomass	0	0%
9	Sawdust	0	0%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	3	0.1%
13	Pellets/ processed biomass/ wood chips	0	0%
14	Biogas	0	0%
15	Ethanol	0	0%
16	Garbage/ plastic	0	0%
17	Other	24	0.6%
Sysmiss		186	

**H2\_2: In the last 12 months, select all the fuel consumed by the household: (#2/17)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 134 Invalid: 3769 Minimum: 3 Maximum: 17  
 Type: Discrete Decimal: 0 Width: 2 Range: 3 - 17 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

H.2. Fuel Type

CATEGORIES

Value	Category	Cases	
1	LPG/ cooking gas	0	0%
2	Wood purchased	0	0%
3	Wood collected	7	5.2%
4	Charcoal	80	59.7%
5	Solar	2	1.5%
6	Kerosene	1	0.7%
7	Animal waste/ Dung	0	0%
8	Crop Residue/ Plant Biomass	1	0.7%
9	Sawdust	3	2.2%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	1	0.7%
13	Pellets/ processed biomass/ wood chips	0	0%
14	Biogas	0	0%
15	Ethanol	0	0%
16	Garbage/ plastic	37	27.6%
17	Other	2	1.5%
Sysmiss		3769	

**H2\_3: In the last 12 months, select all the fuel consumed by the household: (#3/17)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2 Invalid: 3901 Minimum: 4 Maximum: 16  
 Type: Discrete Decimal: 0 Width: 2 Range: 4 - 16 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

H.2. Fuel Type

CATEGORIES

Value	Category	Cases	
1	LPG/ cooking gas	0	0%
2	Wood purchased	0	0%
3	Wood collected	0	0%
4	Charcoal	1	50%
5	Solar	0	0%
6	Kerosene	0	0%
7	Animal waste/ Dung	0	0%
8	Crop Residue/ Plant Biomass	0	0%
9	Sawdust	0	0%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	0	0%
13	Pellets/ processed biomass/ wood chips	0	0%
14	Biogas	0	0%
15	Ethanol	0	0%
16	Garbage/ plastic	1	50%
17	Other	0	0%
Sysmiss		3901	

## H2\_L\_CNT:

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		3583	96.4%
2		132	3.6%
3		2	0.1%
Sysmiss		186	

## H2\_RPT\_COUNT: Ss-MTF-H2\_rpt\_count

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		3583	96.4%
2		132	3.6%
3		2	0.1%
Sysmiss		186	

## SETOFSSMTFH2\_RPT: Household Fuel Consumption

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
 Type: Continuous Width: 55 Range: - Format: character

## I1: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3632 Invalid: 271 Minimum: 1 Maximum: 3000  
 Type: Discrete Decimal: 0 Width: 4 Range: 1 - 3000 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		1680	46.3%
2		1513	41.7%
3		293	8.1%
4		81	2.2%
5		39	1.1%
6		16	0.4%
7		7	0.2%
8		1	0%
510		1	0%
3000		1	0%

Sysmiss		271	
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## INTERVIEWER INSTRUCTIONS

I.1. Enumerator: Record Respondent ID for this section

**I3\_1: In the last 12 months, which cookstove did you household use for preparing meals**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3671 Invalid: 232 Minimum: 1 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only?

## CATEGORIES

Value	Category	Cases	
1	3 Stone/fire stove	1789	48.7%
2	Other Self-Built Stove	69	1.9%
3	Manufactured stove (electric or gas)	8	0.2%
4	Locally made coal pot	1784	48.6%
5	Improved cookstove	5	0.1%
6	other	16	0.4%
Sysmiss		232	

**I3\_2: In the last 12 months, which cookstove did you household use for preparing meals**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 18 Invalid: 3885 Minimum: 4 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 4 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only?

## CATEGORIES

Value	Category	Cases	
1	3 Stone/fire stove	0	0%
2	Other Self-Built Stove	0	0%

3	Manufactured stove (electric or gas)	0	0%
4	Locally made coal pot	18	100%
5	Improved cookstove	0	0%
6	other	0	0%
Sysmiss		3885	

### I3\_OTHER: In the last 12 months, which cookstove did you household use for preparing meals

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:

Type: Discrete Width: 40 Range: - Format: character

#### Questions and instructions

##### LITERAL QUESTION

I.3. In the last 12 months, which cookstove(s) did your household use for preparing meals only? Other

##### CATEGORIES

Value	Category	Cases	
		3876	99.5%
Can't cook		1	0%
Don't cook		1	0%
I do not cook in here (I am a bachelor).		1	0%
I don't do anything for myself		1	0%
N/A		1	0%
N/A		4	0.1%
Na		3	0.1%
Sysmiss		9	
None		2	0.1%
Steel rod		1	0%
Steel rod cookpot		2	0.1%
Steel rod stove		1	0%

### I3\_L\_CNT:

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		3667	98.7%
2		50	1.3%
Sysmiss		186	

### I3\_RPT\_COUNT: Ss-MTF-I-I3\_rpt\_count

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		3667	98.7%
2		50	1.3%
Sysmiss		186	

### SETOFSSMTFII3\_RPT: Cookstoves

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
 Type: Continuous Width: 57 Range: - Format: character

### I34: Enumerator: based on responses to I.15 and I.18 does the HH use any solid fuels

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	376	10.1%
2	No	3303	88.9%
888	Don't know	38	1%
Sysmiss		186	

## INTERVIEWER INSTRUCTIONS

I.34. Enumerator: based on responses to I.15 and I.18 does the HH use any solid fuels indoors?

**I35: Record the rough shape of the cooking space**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 376 Invalid: 3527 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.35. Record the rough shape of the cooking space

## CATEGORIES

Value	Category	Cases	
1	Roughly square	198	52.7%
2	Roughly rectangular	160	42.6%
3	Roughly Circular	2	0.5%
4	None of the above	16	4.3%
Sysmiss		3527	

**I36A: Record the dimensions of the cooking space in heel-to-toe paces (1st side)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 358 Invalid: 3545 Minimum: 1 Maximum: 96  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 96 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.36. Record the dimensions of the cooking space in heel-to-toe paces. (1st side)

## CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

1		2	0.6%
2		9	2.5%
3		3	0.8%
4		3	0.8%
5		22	6.1%
6		30	8.4%
7		20	5.6%
8		36	10.1%
9		18	5%
10		56	15.6%
11		22	6.1%
12		39	10.9%
13		12	3.4%
14		15	4.2%
15		26	7.3%
16		6	1.7%
17		4	1.1%
18		1	0.3%
19		2	0.6%
20		13	3.6%
21		2	0.6%
22		3	0.8%
24		1	0.3%
25		1	0.3%
26		1	0.3%
27		1	0.3%
30		5	1.4%
50		3	0.8%
84		1	0.3%
96		1	0.3%
Sysmiss		3545	

### I36B: Record the dimensions of the cooking space in heel-to-toe paces (2nd side)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 159    Invalid: 3744    Minimum: 2    Maximum: 520  
 Type: Discrete    Decimal: 0    Width: 3    Range: 2 - 520    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

I.36. Record the dimensions of the cooking space in heel-to-toe paces. (2nd side)

### CATEGORIES

Value	Category	Cases	
2		2	1.3%
3		3	1.9%
4		5	3.1%
5		8	5%
6		17	10.7%
7		14	8.8%
8		21	13.2%
9		8	5%
10		23	14.5%
11		10	6.3%
12		8	5%
13		5	3.1%
14		2	1.3%
15		9	5.7%
16		2	1.3%
17		1	0.6%
18		3	1.9%
20		4	2.5%
21		1	0.6%
22		1	0.6%
23		2	1.3%
24		1	0.6%
25		1	0.6%
28		1	0.6%
30		1	0.6%
35		1	0.6%
40		1	0.6%
42		1	0.6%
45		1	0.6%
96		1	0.6%
520		1	0.6%
Sysmiss		3744	

**I37: Record the type of roof covering the cooking space**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 375 Invalid: 3528 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.37. Record the type of roof covering the cooking space

## CATEGORIES

Value	Category	Cases	
1	Flat	193	51.5%
2	Roughly Conical	78	20.8%
3	Gable (triangular cross-section)	95	25.3%
4	None of the above	9	2.4%
Sysmiss		3528	

**I38: Estimate the height of the highest point of the ceiling relative to your own height**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 359 Invalid: 3544 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.38. Estimate the height of the highest point of the ceiling relative to your own height

## CATEGORIES

Value	Category	Cases	
1	Smaller than me	4	1.1%
2	My height	86	24%
3	1.5 x my height	222	61.8%
4	2 x my height	44	12.3%
5	More than 2 x my height	3	0.8%
Sysmiss		3544	

**I39: How many doors and windows (opening to the outside) does the cooking space have?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 376 Invalid: 3527 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.39. How many doors and windows (opening to the outside) does the cooking space have?

## CATEGORIES

Value	Category	Cases	
0		6	1.6%
1		78	20.7%
2		191	50.8%
3		63	16.8%
4		35	9.3%
5		1	0.3%
6		1	0.3%
8		1	0.3%
Sysmiss		3527	

**I40A: Can you show me the cookstove you spend the most time cooking on?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 372 Invalid: 3531 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

I.40. Can you show me the cookstove you spend the most time cooking on?

## CATEGORIES

Value	Category	Cases	
1	3 Stone/fire stove	108	29%
2	Other Self-Built Stove	20	5.4%
3	Manufactured stove (electric or gas)	3	0.8%
4	Locally made coal pot	241	64.8%
5	Improved cookstove	0	0%

6	other	0	0%
Sysmiss		3531	

### I40A\_OTHER: Can you show me the cookstove you spend the most time cooking on? (Other)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 38 Range: - Format: character

#### Questions and instructions

##### LITERAL QUESTION

I.40. Can you show me the cookstove you spend the most time cooking on? Other

##### CATEGORIES

Value	Category	Cases	
		3899	99.9%
Cosal pot not available		1	0%
Don't allow strangers in cooking area.		1	0%
Hot water bottle		1	0%
Steelrod cookpot		1	0%

### I40B: This is the MAIN cookstove, take a picture of the stove and ask the following qu

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Continuous Width: 26 Range: - Format: character

### I40C: In the last 12 months, what is the most used fuel type you used on this main coo

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3654 Invalid: 249 Minimum: 1 Maximum: 17  
Type: Discrete Decimal: 0 Width: 2 Range: 1 - 17 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

1	LPG/cooking gas	5	0.1%
2	Wood purchased	139	3.8%
3	Wood collected	1515	41.5%
4	Charcoal	1683	46.1%
5	Solar	2	0.1%
6	Kerosene	1	0%
7	Animal Waste/Dung	0	0%
8	Crop Residue/Plant Biomass	0	0%
9	Saw Dust	0	0%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	2	0.1%
13	Processed biomass (pellets)/ woodchips	0	0%
14	Biogas	0	0%
15	Ethanol	0	0%
16	Garbage/plastic	0	0%
17	Not applicable	307	8.4%
18	other	0	0%
Sysmiss		249	

#### I40D: In the last 12 months, what is the second most used fuel type you used on this m

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3645 Invalid: 258 Minimum: 1 Maximum: 17  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 17 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	LPG/cooking gas	2	0.1%
2	Wood purchased	99	2.7%
3	Wood collected	667	18.3%
4	Charcoal	595	16.3%
5	Solar	1	0%
6	Kerosene	2	0.1%
7	Animal Waste/Dung	0	0%
8	Crop Residue/Plant Biomass	0	0%

9	Saw Dust	2	0.1%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	2	0.1%
13	Processed biomass (pellets)/ woodchips	0	0%
14	Biogas	0	0%
15	Ethanol	1	0%
16	Garbage/plastic	52	1.4%
17	Not applicable	2222	61%
18	other	0	0%
Sysmiss		258	

### I41A: How much do you spend on the most used for this stove in the last month/in a typ

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2107 Invalid: 1796 Minimum: 0 Maximum: 32000  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 32000 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

I.41. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove?

### I41B: How much do you spend on the second most used for this stove in the last month/i

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 2226 Invalid: 1677 Minimum: 0 Maximum: 15000  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 15000 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

I.41. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove?

### J1: Do you heat water for washing (either for washing dishes and clothes or for bath

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3691 Invalid: 212 Minimum: 1 Maximum: 2

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

J.1. Do you heat water for washing (either for washing dishes and clothes or for bathing)?

## CATEGORIES

Value	Category	Cases	
1	Yes	2129	57.7%
2	No	1562	42.3%
Sysmiss		212	

**J2: What is the main source you use to heat water?**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 2128    Invalid: 1775    Minimum: 1    Maximum: 6  
Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 6    Format: Numeric**Questions and instructions**

## LITERAL QUESTION

J.2. What is the main source you use to heat water?

## CATEGORIES

Value	Category	Cases	
1	Electric heater	5	0.2%
2	Gas heater	0	0%
3	District heating	0	0%
4	Solar thermal system	2	0.1%
5	Same solid fuel stove used for cooking	2109	99.1%
6	Separate solid fuel stove	12	0.6%
Sysmiss		1775	

**J4: Do you heat your house?**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 3696    Invalid: 207    Minimum: 1    Maximum: 2  
Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

J.4. Do you heat your house?

#### CATEGORIES

Value	Category	Cases	
1	Yes	94	2.5%
2	No	3602	97.5%
Sysmiss		207	

### J5: What is the main source you use to heat your house?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 94 Invalid: 3809 Minimum: 5 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 5 - 6 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

J.5. What is the main source you use to heat your house?

#### CATEGORIES

Value	Category	Cases	
1	Electric heater	0	0%
2	Gas heater	0	0%
3	District heating	0	0%
4	Solar thermal system	0	0%
5	Same solid fuel stove used for cooking	93	98.9%
6	Separate solid fuel stove	1	1.1%
Sysmiss		3809	

### J6: What is the MAIN fuel you use in this separate solid fuel stove?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1 Invalid: 3902 Minimum: 4 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 2 Range: 4 - 4 Format: Numeric

## Questions and instructions

## LITERAL QUESTION

J.6. What is the MAIN fuel you use in this separate solid fuel stove?

## CATEGORIES

Value	Category	Cases	
1	LPG/cooking gas	0	0%
2	Wood purchased	0	0%
3	Wood collected	0	0%
4	Charcoal	1	100%
5	Solar	0	0%
6	Kerosene	0	0%
7	Animal Waste/Dung	0	0%
8	Crop Residue/Plant Biomass	0	0%
9	Saw Dust	0	0%
10	Coal Briquette	0	0%
11	Biomass Briquette	0	0%
12	Electric	0	0%
13	Processed biomass (pellets)/ woodchips	0	0%
14	Biogas	0	0%
15	Ethanol	0	0%
16	Garbage/plastic	0	0%
17	Not applicable	0	0%
18	other	0	0%
Sysmiss		3902	

**K\_1: CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3690 Invalid: 213 Minimum: 1 Maximum: 3

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	HH uses more fuelwood or crop residues than charcoal	1859	50.4%
2	HH uses more charcoal than fuelwood or crop residues	1814	49.2%
3	HH does not use any solid biomass (no charcoal, fuelwood or crop residues)	17	0.5%
Sysmiss		213	

## INTERVIEWER INSTRUCTIONS

K.1. CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and record the most frequently used fuel. If not sure, ask respondent.

## K2: Enumerator: Scan the household roster barcode to register the respondent ID for

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3635 Invalid: 268 Minimum: 1 Maximum: 7528989  
Type: Discrete Decimal: 0 Width: 7 Range: 1 - 7528989 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		1841	50.6%
2		1390	38.2%
3		277	7.6%
4		69	1.9%
5		33	0.9%
6		14	0.4%
7		7	0.2%
8		2	0.1%
9		1	0%
7528989		1	0%
Sysmiss		268	

#### INTERVIEWER INSTRUCTIONS

K.2. Enumerator: Record Respondent ID for this section

## KRAND\_ONCE\_C1: Random number generator

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3713 Invalid: 190 Minimum: 0.00236742710694671 Maximum: 99.9909744262695  
Type: Continuous Decimal: 0 Width: 20 Range: 0.00236742710694671 - 99.9909744262695 Format: Numeric

## KRAND\_CHOICE\_C1: Calculates percentage of IC cost to reflect in WTP

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3713 Invalid: 190 Minimum: 0.330000013113022 Maximum: 1

Type: Discrete    Decimal: 0    Width: 17    Range: 0.330000013113022 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0.330000013113022		1289	34.7%
0.660000026226044		1213	32.7%
1		1211	32.6%
Sysmiss		190	

### KRAND\_ONCE\_C2: Random number generator

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713    Invalid: 190    Minimum: 0.00641424022614956    Maximum: 99.9950485229492  
 Type: Continuous    Decimal: 0    Width: 20    Range: 0.00641424022614956 - 99.9950485229492    Format: Numeric

### KRAND\_CHOICE\_C2: Using Krand\_once\_s2, calculates which type of IC to choose"

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713    Invalid: 190    Minimum: 20    Maximum: 35  
 Type: Discrete    Decimal: 0    Width: 2    Range: 20 - 35    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
20		1857	50%
35		1856	50%
Sysmiss		190	

### KCF\_CC: rounding of cost of charcoal IC

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713    Invalid: 190    Minimum: 11.5500001907349    Maximum: 35  
 Type: Discrete    Decimal: 0    Width: 16    Range: 11.5500001907349 - 35    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
11.5500001907349		1289	34.7%
23.1000003814697		1213	32.7%
35		1211	32.6%
Sysmiss		190	

### KCF\_CW: Rounding of cost of wood IC

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713 Invalid: 190 Minimum: 16.5 Maximum: 50  
 Type: Discrete Decimal: 0 Width: 4 Range: 16.5 - 50 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
16.5		1289	34.7%
33		1213	32.7%
50		1211	32.6%
Sysmiss		190	

### K1: Calculates whether charcoal or wood IC is selected

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713 Invalid: 190 Minimum: 11.5500001907349 Maximum: 50  
 Type: Discrete Decimal: 0 Width: 16 Range: 11.5500001907349 - 50 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
11.5500001907349		624	16.8%
16.5		665	17.9%
23.1000003814697		610	16.4%
33		603	16.2%

35		620	16.7%
50		591	15.9%
Sysmiss		190	

### KDCS: Based on K1, selects label of IC used

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 37 Range: - Format: character

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
		190	4.9%
Econochar Imporved Charcoal Cookstove		1814	46.5%
Envirofit Improved Wood Cookstove		1899	48.7%

### K3: Would you be willing to pay US\$ \${K1} for this \${Dcs}?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3689 Invalid: 214 Minimum: 1 Maximum: 2  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

K.3. Would you be willing to purchase this cookstove at [CAPI: Price]?

##### CATEGORIES

Value	Category	Cases	
1	Yes	1303	35.3%
2	No	2386	64.7%
Sysmiss		214	

### K4CALC: 6 month IC payment amount

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3713 Invalid: 190 Minimum: 1.92999994754791 Maximum: 8.32999992370605  
 Type: Discrete Decimal: 0 Width: 16 Range: 1.92999994754791 - 8.32999992370605 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1.92999994754791		624	16.8%
2.75		665	17.9%
3.84999990463257		610	16.4%
5.5		603	16.2%
5.82999992370605		620	16.7%
8.32999992370605		591	15.9%
Sysmiss		190	

**K4: Would you be willing to pay US\$ \${K1} for this cookstove, if you were given 6 mo**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 2383 Invalid: 1520 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

K.4. Would you be willing to pay \${CF} for this stove, if you were given 6 months to make the payment? This means that each month you will pay \${CF/6} per month for 6 months.

## CATEGORIES

Value	Category	Cases	
1	Yes	566	23.8%
2	No	1782	74.8%
888	Don't know	35	1.5%
Sysmiss		1520	

**K5: Why would you not accept the offer?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 1812 Invalid: 2091 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

K.5. Why would you not accept the offer?

### CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	1456	80.4%
2	Do not need an improved cookstove	334	18.4%
3	Fuel for this stove is unreliable	22	1.2%
4	other	0	0%
Sysmiss		2091	

### K5\_OTHER: Why would you not accept the offer? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 43 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

K.5. Why would you not accept the offer? Other

### CATEGORIES

Value	Category	Cases	
		3898	99.9%
Burning of coal is challenging and tedious.		1	0%
I don't cook		1	0%
If it can accommodate the home		1	0%
N/A		1	0%
Until she sees it		1	0%

### K6CALC: 12 month IC payment cost

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3713 Invalid: 190 Minimum: 0.959999978542328 Maximum: 4.17000007629395  
Type: Discrete Decimal: 0 Width: 17 Range: 0.959999978542328 - 4.17000007629395 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0.959999978542328		624	16.8%
1.37999999523163		665	17.9%
1.92999994754791		610	16.4%
2.75		603	16.2%
2.92000007629395		620	16.7%
4.17000007629395		591	15.9%
Sysmiss		190	

### K6: Would you be willing to pay US\$ \${K1} for this cookstove, if you were given 12 mo

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1819 Invalid: 2084 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

K.6. Would you be willing to pay \${CF} for this solar device, if you were given 12 months to make the payment? This means that each month you will pay \${CF/12} per month for 12 months.

### CATEGORIES

Value	Category	Cases	
1	Yes	469	25.8%
2	No	1331	73.2%
888	Don't know	19	1%
Sysmiss		2084	

### K7: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1347 Invalid: 2556 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

## K.7. Why would you not accept the offer?

## CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	992	73.6%
2	Do not need an improved cookstove	332	24.6%
3	Fuel for this stove is unreliable	23	1.7%
4	other	0	0%
Sysmiss		2556	

**K7\_OTHER: Why would you not accept the offer? (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 41 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

K.7. Why would you not accept the offer? Other

## CATEGORIES

Value	Category	Cases	
		3900	99.9%
Difficult to get coal.		1	0%
It will spoil before payment is completed		1	0%
N/A		1	0%

**K8CALC: 24 month IC payment cost**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3713 Invalid: 190 Minimum: 0.479999989271164 Maximum: 2.07999992370605  
 Type: Discrete Decimal: 0 Width: 17 Range: 0.479999989271164 - 2.07999992370605 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0.479999989271164		624	16.8%
0.689999997615814		665	17.9%

0.959999978542328		610	16.4%
1.37999999523163		603	16.2%
1.46000003814697		620	16.7%
2.07999992370605		591	15.9%
Sysmiss		190	

### K8: Would you be willing to pay US\$ \${K1} for this cookstove, if you were given 24 m

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 1350 Invalid: 2553 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

K.8. Would you be willing to pay \${CF} for this solar device, if you were given 24 months to make the payment? This means that each month you will pay \${CF/24} per month for 24 months.

##### CATEGORIES

Value	Category	Cases	
1	Yes	438	32.4%
2	No	897	66.4%
888	Don't know	15	1.1%
Sysmiss		2553	

### K9: Why would you not accept the offer?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 911 Invalid: 2992 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

K.9. Why would you not accept the offer?

##### CATEGORIES

Value	Category	Cases	
1	Cannot afford the payment	567	62.2%
2	Do not need an improved cookstove	321	35.2%
3	Fuel for this stove is unreliable	20	2.2%

4	other	3	0.3%
Sysmiss		2992	

## K9\_OTHER: Why would you not accept the offer? (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
Type: Discrete Width: 43 Range: - Format: character

### Questions and instructions

LITERAL QUESTION

K.9. Why would you not accept the offer? Other

CATEGORIES

Value	Category	Cases	
		3899	99.9%
Difficult constraint		1	0%
It will spoil before payment is completed		1	0%
N\A		1	0%
Not too sure of having it in a rented house		1	0%

## L1: Cereals & cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 25000  
Type: Continuous Decimal: 0 Width: 5 Range: 0 - 25000 Format: Numeric

### Questions and instructions

LITERAL QUESTION

L.1. Cereals & cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy staples (e.g.: cassava, plantain, yam, cocoyam)

## L2: Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 9000  
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 9000 Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.2. Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans)

---

### **L3: Milk & milk products (e.g.: powder, tinned, fresh)**

**Data file: MTF\_HH\_Main.dta**

#### **Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 9870  
 Type: Continuous    Decimal: 0    Width: 4    Range: 0 - 9870    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.3. Milk & milk products (e.g.: powder, tinned, fresh, )

---

### **L4: Edible oil (e.g.: palm oil, groundnut oil, coconut oil)**

**Data file: MTF\_HH\_Main.dta**

#### **Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 10000  
 Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 10000    Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.4. Edible oil (e.g.: palm oil, groundnut oil, coconut oil)

---

### **L5: Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (**

**Data file: MTF\_HH\_Main.dta**

#### **Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 10000  
 Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 10000    Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.5. Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (e.g.: bananas, coconut, pineapple, mango, orange, pawpaw)

---

**L6: Egg, fish (smoked/fresh), meat, & poultry****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 14000  
 Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 14000    Format: Numeric

**Questions and instructions**

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LITERAL QUESTION

L.6. Egg, fish (smoked/fresh), meat, & poultry

---

**L7: Sugar****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 4800  
 Type: Continuous    Decimal: 0    Width: 4    Range: 0 - 4800    Format: Numeric

**Questions and instructions**

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LITERAL QUESTION

L.7. Sugar

---

**L8: Other food items (e.g, pepper, salt, spices, butter, jam, bread, groundnut paste****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 8700  
 Type: Continuous    Decimal: 0    Width: 4    Range: 0 - 8700    Format: Numeric

**Questions and instructions**

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LITERAL QUESTION

L.8 Other food items (e.g, pepper, salt, spices, butter, jam, bread, groundnut paste, processed foods, etc.). Include all processed foods not prepared by household using raw ingredients

---

**L9: Meals/food bought outside home Include any meals purchased from outside that ar****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 50000  
 Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 50000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.9. Meals/food bought outside home

Include any meals purchased from outside that are not prepared by the household

---

## **L10: Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo)**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 7000  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 7000 Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.10. Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo)

---

## **L11: Alcohol, tobacco and cigarettes**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 10000  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 10000 Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.11. Alcohol, tobacco and cigarettes

---

## **\_30DAYSL12: Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 120000  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 120000 Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.12. Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/chemist, traditional/herbal medicine)

**\_30DAYSL13: Soaps, disinfectants and cleaning supplies; cosmetics and toiletries****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 16200  
Type: Continuous Decimal: 0 Width: 5 Range: 0 - 16200 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

L.13. Soaps, disinfectants and cleaning supplies; cosmetics and toiletries

**\_30DAYSL14: Water supply for drinking and other uses (tanker services, pipe-borne, metered,****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 16200  
Type: Continuous Decimal: 0 Width: 5 Range: 0 - 16200 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

L.14. Water supply for drinking and other uses (tanker services, pipe-borne, metered, bore-hole, well, purchased water)

**\_30DAYSL15: Mobile phone top-up****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 50000  
Type: Continuous Decimal: 0 Width: 5 Range: 0 - 50000 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

L.15. Mobile phone top-up

**\_30DAYSL16: Internet, landline, dish, cable, and other household communication****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 11000

Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 11000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.16. Internet, land phone, dish, cable, and other household communication

---

## **\_30DAYSL17: House Rent**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 3500000  
 Type: Continuous    Decimal: 0    Width: 7    Range: 0 - 3500000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.17. House Rent

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## **\_30DAYSL18: Transportation costs (fuel for own vehicles, cost of public transportation, buse**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 468000  
 Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 468000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.18. Transportation costs (fuel for own vehicles, cost of public transportation, buses, taxis, motorcycle)

---

## **\_30DAYSL19: Other recurring monthly expenditure (wage of domestic workers, entertainment, et**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 80000  
 Type: Continuous    Decimal: 0    Width: 5    Range: 0 - 80000    Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.19. Other recurring monthly expenditure (wage of domestic workers, entertainment, etc.)

**\_1YEARL20: School fees and other educational expenses, Include uniform, PTA dues, books, tu****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1000000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 1000000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

L.20. School fees and other educational expenses

Include uniform, PTA dues, books, tutor, school supplies, transport, food, etc.

**\_1YEARL21: Clothing, shoes, and accessories****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 650000  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 650000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

L.21. Clothing, shoes, and accessories

**\_1YEARL22: Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony,****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 2450000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 2450000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

L.22. Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony, engagement). Only include costs to host celebration or to give donations/gifts for attending celebrations.

**\_1YEARL23: Gifts and donations (e.g.: donation to church made by the household, tithes), O****Data file:** MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 212100  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 212100 Format: Numeric

**Questions and instructions**

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## LITERAL QUESTION

L.23. Gifts and donations (e.g.: donation to church made by the household, tithes). Only include gifts and donations not already included in L.22

---

**\_1YEARL24: Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hosp**

**Data file: MTF\_HH\_Main.dta**

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 500000  
 Type: Continuous Decimal: 0 Width: 6 Range: 0 - 500000 Format: Numeric

**Questions and instructions**

---

## LITERAL QUESTION

L.24. Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hospital, public hospital, traditional healer). Do not include costs paid for by insurance

---

**\_1YEARL25: Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpe**

**Data file: MTF\_HH\_Main.dta**

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1600000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 1600000 Format: Numeric

**Questions and instructions**

---

## LITERAL QUESTION

L.25. Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpets)

---

**\_1YEARL26: Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labo**

**Data file: MTF\_HH\_Main.dta**

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 360000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 360000000 Format: Numeric

## Questions and instructions

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### LITERAL QUESTION

L.26. Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labor for repairs, sewerage removal)

---

## **\_1YEARL27: Utensils & kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, bucke**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 2000000000  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 2000000000    Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.27. Utensils & kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, buckets)

---

## **\_1YEARL28: Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satell**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 750000  
 Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 750000    Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.28. Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satellite TV, MP3 player, video game player, pen drives, other digital accessories, Computer or laptop purchase

---

## **\_1YEARL29: Appliances & tools (e.g.: electric iron, electric fans, refrigerators, lanterns,**

**Data file: MTF\_HH\_Main.dta**

### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 162000  
 Type: Continuous    Decimal: 0    Width: 6    Range: 0 - 162000    Format: Numeric

## Questions and instructions

---

### LITERAL QUESTION

L.29. Appliances & tools (e.g.: electric iron, electric fans, refrigerators, lanterns, brooms)

---

**\_1YEARL30: Vehicles & motorcycle & bicycle (purchase or repair of own car/moto/ car battery)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 7350000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 7350000 Format: Numeric

**Questions and instructions**

---

LITERAL QUESTION

L.30. Vehicles & motorcycle & bicycle (purchase or repair of own car/moto/ car battery)

---

**\_1YEARL31: Remittance sent to family members and relatives****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 88800000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 88800000 Format: Numeric

**Questions and instructions**

---

LITERAL QUESTION

L.31. Remittance sent to family members and relatives

---

**\_1YEARL32: Losses due to theft, robbery, accidents, natural disasters, etc.****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1700000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 1700000 Format: Numeric

**Questions and instructions**

---

LITERAL QUESTION

L.32. Losses due to theft, robbery, accidents, natural disasters, etc.

---

**\_1YEARL33: Other major expenses not yet covered (specify)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 650000  
 Type: Discrete Decimal: 0 Width: 6 Range: 0 - 650000 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

L.33. Other major expenses not yet covered (specify)

### CATEGORIES

Value	Category	Cases	
0		3671	98.8%
888		19	0.5%
1500		1	0%
1600		1	0%
2000		1	0%
3780		1	0%
4000		1	0%
5000		3	0.1%
6000		1	0%
7000		2	0.1%
7500		1	0%
9000		1	0%
10000		1	0%
12600		1	0%
13000		1	0%
16000		1	0%
20000		1	0%
30000		1	0%
45000		1	0%
70000		2	0.1%
100000		1	0%
120000		1	0%
161400		1	0%
400000		1	0%
650000		1	0%
Sysmiss		186	

**\_1YEARL34: Please specify the major expense listed:**

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 30 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
		3857	98.8%
,888		1	0%
0		4	0.1%
888		5	0.1%
Building house		1	0%
Building Structure		1	0%
Buying palm trees for planting		1	0%
Child school fees		1	0%
Children's school fees		1	0%
Construction		1	0%
Court case		1	0%
Electric iron		1	0%
Farm brushing		1	0%
Food		3	0.1%
Food and school fees		1	0%
Grand child sch. Fees		1	0%
House rent		1	0%
Moving		2	0.1%
Moving transportation		1	0%
N\A		3	0.1%
O		5	0.1%
Purchase of a lot of land		1	0%
Rebuilding her house		1	0%
School fees		5	0.1%
Sick relative outside home		1	0%
To build house		1	0%
To do surgery		1	0%

### M1: Do you own any of the following household assets? (#1/15)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3704 Invalid: 199 Minimum: 1 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 111 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

Assets

#### CATEGORIES

Value	Category	Cases	
1	Vehicle (Car, pickup truck, etc)	86	2.3%
2	Motorcycle	93	2.5%
3	Motor boat	5	0.1%
4	Two-wheel tractor	1	0%
5	Four-wheel tractor	0	0%
6	Thresher	0	0%
7	Domestic water pump	0	0%
8	Transplant rice seeding machine	0	0%
9	Rice contended machine	1	0%
10	Water pump for irrigation	0	0%
11	Miller	0	0%
12	Gasoline motor	0	0%
13	Diesel motor	0	0%
14	Other specify	2	0.1%
111	None	3516	94.9%
Sysmiss		199	

### M\_L\_CNT:

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		3704	99.7%
2		13	0.3%
Sysmiss		186	

**M\_RPT\_COUNT: Ss-MTF-M\_rpt\_count****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717    Invalid: 186    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		3704	99.7%
2		13	0.3%
Sysmiss		186	

**SETOFSSMTFM\_RPT: Infrastructure and Services****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903    Invalid:  
 Type: Continuous    Width: 54    Range: -    Format: character

**N1A: Do you own agricultural land (including cultivated land, resting land, preparati****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3713    Invalid: 190    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	774	20.8%
2	No	2939	79.2%
Sysmiss		190	

**N1B: What is the unit of measure you would use to size the land?****Data file:** MTF\_HH\_Main.dta

## Overview

Valid: 771 Invalid: 3132 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Hectar	29	3.8%
2	Acre	558	72.4%
3	Lot (4 Lots to 1 Acres)	172	22.3%
4	House spot (Below 1/2 Lot)	8	1%
5	Meter	1	0.1%
6	Feet	0	0%
7	Other	3	0.4%
Sysmiss		3132	

### N1BJR:

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 26 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
		3132	80.2%
Acre		558	14.3%
Hectar		29	0.7%
House spot (Below 1/2 Lot)		8	0.2%
Lot (4 Lots to 1 Acres)		172	4.4%
Meter		1	0%
Other		3	0.1%

### N1C: What is the total size of the land in \${N1bjr}?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 774 Invalid: 3129 Minimum: 0 Maximum: 11928  
 Type: Continuous Decimal: 0 Width: 5 Range: 0 - 11928 Format: Numeric

### N1D: If you were to sell, what is the total value?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 774 Invalid: 3129 Minimum: 0 Maximum: 11000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 110000000 Format: Numeric

### N2A: Do you own Homestead land?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3715 Invalid: 188 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	90	2.4%
2	No	3625	97.6%
Sysmiss		188	

### N2B: What is the unit of measure you would use to size the land?

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 90 Invalid: 3813 Minimum: 1 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Hectar	5	5.6%
2	Acre	27	30%
3	Lot (4 Lots to 1 Acres)	27	30%
4	House spot (Below 1/2 Lot)	8	8.9%

5	Meter	0	0%
6	Feet	23	25.6%
7	Other	0	0%
Sysmiss		3813	

**N2BJR:**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 26 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		3813	97.7%
Acre		27	0.7%
Feet		23	0.6%
Hectar		5	0.1%
House spot (Below 1/2 Lot)		8	0.2%
Lot (4 Lots to 1 Acres)		27	0.7%

**N2C: What is the total size of the land in \${N2bjr}?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 90 Invalid: 3813 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		26	28.9%
2		13	14.4%
3		5	5.6%
4		4	4.4%
5		3	3.3%
8		1	1.1%

12		1	1.1%
15		3	3.3%
24		1	1.1%
40		1	1.1%
50		6	6.7%
60		2	2.2%
75		4	4.4%
80		2	2.2%
85		1	1.1%
100		3	3.3%
105		1	1.1%
120		1	1.1%
130		1	1.1%
150		4	4.4%
180		1	1.1%
185		1	1.1%
250		1	1.1%
600		1	1.1%
700		1	1.1%
888		2	2.2%
Sysmiss		3813	

## N2D: If you were to sell, what is the total value?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 90 Invalid: 3813 Minimum: 888 Maximum: 1980000  
 Type: Discrete Decimal: 0 Width: 7 Range: 888 - 1980000 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
888		82	91.1%
10000		1	1.1%
15000		1	1.1%
26250		1	1.1%
40000		1	1.1%
45000		1	1.1%

88000		1	1.1%
325700		1	1.1%
1980000		1	1.1%
Sysmiss		3813	

### N3A: Do you own non-agricultural land?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3713 Invalid: 190 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Yes	712	19.2%
2	No	3001	80.8%
Sysmiss		190	

### N3B: What is the unit of measure you would use to size the land?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 710 Invalid: 3193 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
1	Hectar	11	1.5%
2	Acre	159	22.4%
3	Lot (4 Lots to 1 Acres)	464	65.4%
4	House spot (Below 1/2 Lot)	70	9.9%
5	Meter	2	0.3%
6	Feet	2	0.3%
7	Other	2	0.3%
Sysmiss		3193	

**N3BJR:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 26 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		3193	81.8%
Acre		159	4.1%
Feet		2	0.1%
Hectar		11	0.3%
House spot (Below 1/2 Lot)		70	1.8%
Lot (4 Lots to 1 Acres)		464	11.9%
Meter		2	0.1%
Other		2	0.1%

**N3C: What is the total size of the land in \${N3bjr}?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 712 Invalid: 3191 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 16 Range: 0 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		7	1%
0.5		7	1%
1		318	44.7%
1.20000004768372		3	0.4%
1.5		22	3.1%
2		179	25.1%
2.5		4	0.6%
3		45	6.3%

4		30	4.2%
5		17	2.4%
6		8	1.1%
8		2	0.3%
10		6	0.8%
12		3	0.4%
20		3	0.4%
25		3	0.4%
30		1	0.1%
42		1	0.1%
65		1	0.1%
75		1	0.1%
85		2	0.3%
100		4	0.6%
112		1	0.1%
117		3	0.4%
125		4	0.6%
126		1	0.1%
130		2	0.3%
132		1	0.1%
135		1	0.1%
150		2	0.3%
160		1	0.1%
185		1	0.1%
217		2	0.3%
220		1	0.1%
250		2	0.3%
265		1	0.1%
275		1	0.1%
285		3	0.4%
315		1	0.1%
350		2	0.3%
400		1	0.1%
430		1	0.1%
450		1	0.1%
630		1	0.1%
800		1	0.1%
888		10	1.4%
Sysmiss		3191	

**N3D: If you were to sell, what is the total value?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 712 Invalid: 3191 Minimum: 0 Maximum: 15000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 15000000 Format: Numeric

**N4A: Do you own any buildings, structures, shops, or warehouses, etc?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3714 Invalid: 189 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	1106	29.8%
2	No	2608	70.2%
Sysmiss		189	

**N4B: What is the unit of measure you would use to size the structures?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 1106 Invalid: 2797 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Hectar	3	0.3%
2	Acre	37	3.3%
3	Lot (4 Lots to 1 Acres)	463	41.9%
4	House spot (Below 1/2 Lot)	499	45.1%
5	Meter	7	0.6%
6	Feet	95	8.6%
7	Other	2	0.2%

Sysmiss	2797
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**N4BJR:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 26 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		2797	71.7%
Acre		37	0.9%
Feet		95	2.4%
Hectar		3	0.1%
House spot (Below 1/2 Lot)		499	12.8%
Lot (4 Lots to 1 Acres)		463	11.9%
Meter		7	0.2%
Other		2	0.1%

**N4C: What is the total size of the structures in \${N4bjr}?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 1105 Invalid: 2798 Minimum: 0.100000001490116 Maximum: 100000  
 Type: Continuous Decimal: 0 Width: 17 Range: 0.100000001490116 - 100000 Format: Numeric

**N4D: If you were to sell, what is the total value?****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 1105 Invalid: 2798 Minimum: 0 Maximum: 20000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 20000000 Format: Numeric

**O1A: In the last 12 months, have you been affected by failure/loss of business includ****Data file:** MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Yes	259	7%
2	No	3458	93%
Sysmiss		186	

**01B: Who was affected by the event?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 258 Invalid: 3645 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Just this household	89	34.5%
2	Family members outside HH	24	9.3%
3	Several HHs in this village or community	70	27.1%
4	Most or all HHs in this village or community	68	26.4%
5	Several villages/communities in this area	7	2.7%
Sysmiss		3645	

**02A: In the last 12 months, have you been affected by loss of employment due to impri**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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1	Yes	178	4.8%
2	No	3539	95.2%
Sysmiss		186	

## O2B: Who was affected by the event?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 178 Invalid: 3725 Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Just this household	105	59%
2	Family members outside HH	72	40.4%
3	Several HHs in this village or community	1	0.6%
4	Most or all HHs in this village or community	0	0%
5	Several villages/communities in this area	0	0%
Sysmiss		3725	

## P1: Respondent ID

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3651 Invalid: 252 Minimum: 1 Maximum: 5000  
 Type: Discrete Decimal: 0 Width: 4 Range: 1 - 5000 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		1970	54%
2		1311	35.9%
3		254	7%
4		63	1.7%
5		28	0.8%
6		13	0.4%
7		6	0.2%

8		1	0%
9		1	0%
10		1	0%
540		2	0.1%
5000		1	0%
Sysmiss		252	

## P2: Does your neighborhood have any form of street lighting?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Yes	324	8.7%
2	No	3393	91.3%
Sysmiss		186	

## P3: How satisfied are you by the brightness of the street lighting service in your n

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 324 Invalid: 3579 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Very unsatisfied	58	17.9%
2	Somewhat unsatisfied	63	19.4%
3	Somewhat satisfied	143	44.1%
4	Very satisfied	60	18.5%
Sysmiss		3579	

**P4\_1: What do you think are the risks/problems with street lighting in your neighborho****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 324    Invalid: 3579    Minimum: 1    Maximum: 111  
 Type: Discrete    Decimal: 0    Width: 3    Range: 1 - 111    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Electrocution	2	0.6%
2	Poor installation	50	15.4%
3	Poor maintenance	58	17.9%
4	Outages/blackouts of street lighting	39	12%
5	Does not stay on all night	40	12.3%
111	No risks/problems	135	41.7%
Sysmiss		3579	

**P4\_2: What do you think are the risks/problems with street lighting in your neighborho****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 48    Invalid: 3855    Minimum: 3    Maximum: 111  
 Type: Discrete    Decimal: 0    Width: 3    Range: 3 - 111    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Electrocution	0	0%
2	Poor installation	0	0%
3	Poor maintenance	24	50%
4	Outages/blackouts of street lighting	13	27.1%
5	Does not stay on all night	10	20.8%
111	No risks/problems	1	2.1%
Sysmiss		3855	

**P4\_3: What do you think are the risks/problems with street lighting in your neighborho****Data file:** MTF\_HH\_Main.dta

**Overview**

Valid: 14 Invalid: 3889 Minimum: 4 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Electrocution	0	0%
2	Poor installation	0	0%
3	Poor maintenance	0	0%
4	Outages/blackouts of street lighting	7	50%
5	Does not stay on all night	7	50%
111	No risks/problems	0	0%
Sysmiss		3889	

**P4\_4: What do you think are the risks/problems with street lighting in your neighborho**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3 Invalid: 3900 Minimum: 5 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Electrocution	0	0%
2	Poor installation	0	0%
3	Poor maintenance	0	0%
4	Outages/blackouts of street lighting	0	0%
5	Does not stay on all night	3	100%
111	No risks/problems	0	0%
Sysmiss		3900	

**P5: Do you have a light that you could turn on at night to provide light outside you**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 323 Invalid: 3580 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Yes	123	38.1%
2	No	200	61.9%
Sysmiss		3580	

### P6: How many hours do you turn it on each night after it becomes dark?

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 122 Invalid: 3781 Minimum: 1 Maximum: 24  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 24 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		2	1.6%
2		6	4.9%
3		4	3.3%
5		1	0.8%
6		10	8.2%
7		10	8.2%
8		11	9%
9		4	3.3%
10		4	3.3%
11		4	3.3%
12		60	49.2%
13		1	0.8%
15		2	1.6%
24		3	2.5%
Sysmiss		3781	

### Q1Q1A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 3000000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 3000000 Format: Numeric

**Q1Q1B: Girls (Under age 15 years) -**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 2000000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 2000000 Format: Numeric

**Q1Q1C: Men (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 3000000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 3000000 Format: Numeric

**Q1Q1D: Boys (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3216	86.5%
1		8	0.2%
2		12	0.3%
3		7	0.2%
4		6	0.2%
5		49	1.3%
6		6	0.2%
7		3	0.1%
8		14	0.4%
10		53	1.4%
11		1	0%
12		3	0.1%

13		4	0.1%
14		1	0%
15		55	1.5%
18		2	0.1%
20		31	0.8%
24		1	0%
25		33	0.9%
30		37	1%
35		21	0.6%
36		1	0%
40		6	0.2%
45		41	1.1%
50		5	0.1%
55		6	0.2%
60		52	1.4%
75		1	0%
80		3	0.1%
85		2	0.1%
90		12	0.3%
100		1	0%
105		1	0%
120		15	0.4%
130		1	0%
150		3	0.1%
160		1	0%
360		1	0%
888		2	0.1%
Sysmiss		186	

## Q2Q2A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 20000000  
 Type: Discrete Decimal: 0 Width: 8 Range: 0 - 20000000 Format: Numeric

### Questions and instructions

CATEGORIES

Value	Category	Cases	
0		758	20.4%
1		162	4.4%
2		330	8.9%
3		281	7.6%
4		120	3.2%
5		669	18%
6		71	1.9%
7		32	0.9%
8		46	1.2%
9		4	0.1%
10		316	8.5%
11		3	0.1%
12		15	0.4%
13		5	0.1%
14		3	0.1%
15		257	6.9%
18		6	0.2%
19		2	0.1%
20		104	2.8%
21		2	0.1%
22		1	0%
24		2	0.1%
25		157	4.2%
27		1	0%
28		2	0.1%
30		125	3.4%
35		50	1.3%
38		1	0%
40		9	0.2%
45		81	2.2%
46		1	0%
50		7	0.2%
55		6	0.2%
60		57	1.5%
68		1	0%
70		1	0%
75		1	0%
80		1	0%

85		1	0%
90		8	0.2%
100		1	0%
115		1	0%
120		9	0.2%
180		2	0.1%
888		2	0.1%
8888		1	0%
2000000		1	0%
20000000		1	0%
Sysmiss		186	

## Q2Q2B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 5000000  
 Type: Discrete Decimal: 0 Width: 7 Range: 0 - 5000000 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2919	78.5%
1		47	1.3%
2		43	1.2%
3		70	1.9%
4		40	1.1%
5		204	5.5%
6		25	0.7%
7		19	0.5%
8		22	0.6%
9		3	0.1%
10		71	1.9%
12		10	0.3%
14		1	0%
15		61	1.6%
18		8	0.2%
20		31	0.8%

21		1	0%
22		1	0%
25		33	0.9%
27		2	0.1%
28		1	0%
30		29	0.8%
32		1	0%
35		21	0.6%
40		3	0.1%
45		14	0.4%
50		3	0.1%
55		8	0.2%
60		12	0.3%
80		1	0%
90		3	0.1%
100		1	0%
120		1	0%
888		2	0.1%
100000		1	0%
1000000		4	0.1%
5000000		1	0%
Sysmiss		186	

## Q2Q2C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2727	73.4%
1		60	1.6%
2		89	2.4%
3		96	2.6%
4		51	1.4%

5		255	6.9%
6		32	0.9%
7		7	0.2%
8		19	0.5%
9		2	0.1%
10		99	2.7%
11		2	0.1%
12		6	0.2%
13		1	0%
15		62	1.7%
17		2	0.1%
18		5	0.1%
19		1	0%
20		33	0.9%
22		2	0.1%
23		1	0%
25		38	1%
28		2	0.1%
30		36	1%
35		17	0.5%
38		1	0%
40		7	0.2%
45		19	0.5%
50		4	0.1%
55		3	0.1%
60		24	0.6%
75		1	0%
80		1	0%
85		1	0%
90		2	0.1%
120		5	0.1%
180		1	0%
720		1	0%
888		2	0.1%
Sysmiss		186	

### Q2Q2D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3356	90.3%
1		30	0.8%
2		20	0.5%
3		20	0.5%
4		16	0.4%
5		93	2.5%
6		13	0.3%
7		8	0.2%
8		5	0.1%
9		1	0%
10		45	1.2%
11		1	0%
12		1	0%
15		39	1%
16		2	0.1%
18		2	0.1%
19		1	0%
20		17	0.5%
21		1	0%
25		14	0.4%
30		6	0.2%
32		1	0%
35		12	0.3%
40		2	0.1%
45		4	0.1%
50		1	0%
55		1	0%
60		3	0.1%
888		2	0.1%
Sysmiss		186	

**Q3Q3A: Women (Age 15 yrs and older) -****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 90000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 90000000 Format: Numeric

---

**Q3Q3B: Girls (Under age 15 years) -****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 360000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 360000000 Format: Numeric

---

**Q3Q3C: Men (Age 15 yrs and older):****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 900  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 900 Format: Numeric

---

**Q3Q3D: Boys (Under age 15 years):****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3532	95%
8		5	0.1%
9		1	0%
10		11	0.3%
12		2	0.1%
13		1	0%
15		11	0.3%
20		10	0.3%
25		11	0.3%

30		10	0.3%
35		20	0.5%
40		10	0.3%
45		18	0.5%
50		2	0.1%
55		7	0.2%
60		24	0.6%
65		4	0.1%
75		3	0.1%
80		1	0%
85		2	0.1%
90		14	0.4%
120		10	0.3%
130		1	0%
140		1	0%
150		1	0%
160		1	0%
180		2	0.1%
888		2	0.1%
Sysmiss		186	

#### Q4Q4A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1260  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 1260 Format: Numeric

#### Q4Q4B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

##### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 120000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 120000000 Format: Numeric

#### Q4Q4C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

**Q4Q4D: Boys (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3275	88.1%
1		1	0%
3		3	0.1%
5		21	0.6%
6		1	0%
7		1	0%
8		6	0.2%
9		2	0.1%
10		54	1.5%
14		1	0%
15		51	1.4%
16		1	0%
18		1	0%
20		24	0.6%
25		28	0.8%
30		45	1.2%
35		22	0.6%
40		16	0.4%
45		38	1%
48		1	0%
50		2	0.1%
55		2	0.1%
59		1	0%
60		60	1.6%
65		1	0%

70		1	0%
75		1	0%
80		5	0.1%
90		12	0.3%
95		1	0%
100		1	0%
110		1	0%
120		21	0.6%
125		2	0.1%
135		1	0%
150		1	0%
180		2	0.1%
240		4	0.1%
270		1	0%
300		1	0%
360		1	0%
420		1	0%
450		1	0%
888		1	0%
Sysmiss		186	

### Q5Q5A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3529	94.9%
2		1	0%
5		1	0%
8		3	0.1%
10		4	0.1%
15		4	0.1%
20		7	0.2%

25		3	0.1%
30		19	0.5%
35		2	0.1%
40		4	0.1%
45		14	0.4%
50		3	0.1%
55		3	0.1%
60		52	1.4%
80		1	0%
90		8	0.2%
100		1	0%
120		29	0.8%
180		17	0.5%
240		5	0.1%
300		5	0.1%
360		1	0%
888		1	0%
Sysmiss		186	

### Q5Q5B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 300  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 300    Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3604	97%
5		1	0%
8		5	0.1%
10		2	0.1%
15		2	0.1%
20		3	0.1%
25		2	0.1%
30		15	0.4%
35		9	0.2%

40		1	0%
45		15	0.4%
55		7	0.2%
60		21	0.6%
85		1	0%
90		3	0.1%
100		1	0%
110		1	0%
120		14	0.4%
180		6	0.2%
240		3	0.1%
300		1	0%
Sysmiss		186	

### Q5Q5C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 540  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 540 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3582	96.4%
2		2	0.1%
5		8	0.2%
8		6	0.2%
10		10	0.3%
15		7	0.2%
20		2	0.1%
25		13	0.3%
30		10	0.3%
35		8	0.2%
45		11	0.3%
50		1	0%
55		2	0.1%
60		21	0.6%

90		6	0.2%
120		14	0.4%
180		7	0.2%
240		1	0%
300		5	0.1%
540		1	0%
Sysmiss		186	

### Q5Q5D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 240  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 240 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3615	97.3%
8		4	0.1%
10		7	0.2%
15		14	0.4%
20		3	0.1%
25		2	0.1%
30		9	0.2%
35		11	0.3%
45		4	0.1%
55		1	0%
60		21	0.6%
90		9	0.2%
110		1	0%
115		1	0%
120		6	0.2%
180		7	0.2%
240		2	0.1%
Sysmiss		186	

**Q6Q6A: Women (Age 15 yrs and older) -****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 888  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 888    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3645	98.1%
1		2	0.1%
2		5	0.1%
3		9	0.2%
4		2	0.1%
5		4	0.1%
8		2	0.1%
15		3	0.1%
25		2	0.1%
35		3	0.1%
40		1	0%
45		8	0.2%
50		3	0.1%
55		4	0.1%
60		16	0.4%
75		1	0%
120		1	0%
240		2	0.1%
300		2	0.1%
480		1	0%
888		1	0%
Sysmiss		186	

**Q6Q6B: Girls (Under age 15 years) -****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 55  
 Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 55    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3656	98.4%
1		4	0.1%
2		10	0.3%
3		2	0.1%
4		2	0.1%
5		1	0%
8		5	0.1%
10		1	0%
15		3	0.1%
25		7	0.2%
35		6	0.2%
45		7	0.2%
50		3	0.1%
55		10	0.3%
Sysmiss		186	

### Q6Q6C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 120  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 120 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3660	98.5%
1		7	0.2%
2		4	0.1%
3		1	0%
5		2	0.1%
8		5	0.1%
10		2	0.1%
15		6	0.2%

25		5	0.1%
30		1	0%
35		11	0.3%
45		6	0.2%
50		1	0%
55		2	0.1%
60		3	0.1%
120		1	0%
Sysmiss		186	

### Q6Q6D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 60  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 60 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3675	98.9%
1		3	0.1%
2		2	0.1%
3		1	0%
5		2	0.1%
8		1	0%
10		10	0.3%
15		6	0.2%
25		8	0.2%
35		7	0.2%
45		1	0%
60		1	0%
Sysmiss		186	

### Q7Q7A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 480000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 480000000 Format: Numeric

**Q7Q7B: Girls (Under age 15 years) -**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 580  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 580 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3516	94.6%
1		6	0.2%
2		4	0.1%
3		1	0%
5		14	0.4%
6		1	0%
7		1	0%
8		3	0.1%
10		21	0.6%
12		2	0.1%
14		1	0%
15		11	0.3%
16		1	0%
18		1	0%
20		5	0.1%
23		1	0%
25		7	0.2%
30		15	0.4%
35		15	0.4%
40		2	0.1%
45		18	0.5%
50		3	0.1%
55		4	0.1%
58		1	0%
60		40	1.1%

90		7	0.2%
110		1	0%
115		1	0%
120		4	0.1%
140		1	0%
180		2	0.1%
235		1	0%
240		1	0%
360		2	0.1%
480		1	0%
500		1	0%
580		1	0%
Sysmiss		186	

### Q7Q7C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 540000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 540000000 Format: Numeric

### Q7Q7D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 500  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 500 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3601	96.9%
1		1	0%
5		6	0.2%
6		2	0.1%
7		1	0%
8		6	0.2%
10		17	0.5%
12		1	0%

14		1	0%
15		11	0.3%
18		1	0%
20		6	0.2%
25		5	0.1%
30		8	0.2%
35		9	0.2%
40		2	0.1%
45		14	0.4%
50		2	0.1%
55		3	0.1%
60		10	0.3%
80		1	0%
90		4	0.1%
130		1	0%
245		1	0%
360		2	0.1%
500		1	0%
Sysmiss		186	

### Q8Q8A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 60000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 60000000 Format: Numeric

### Q8Q8B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 750  
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 750 Format: Numeric

### Q8Q8C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 15000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 15000000 Format: Numeric

**Q8Q8D: Boys (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 720  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 720 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3108	83.6%
1		1	0%
2		1	0%
5		10	0.3%
6		1	0%
7		2	0.1%
8		7	0.2%
9		1	0%
10		31	0.8%
12		1	0%
13		1	0%
15		45	1.2%
16		1	0%
19		1	0%
20		33	0.9%
23		1	0%
25		25	0.7%
30		46	1.2%
35		29	0.8%
40		6	0.2%
45		65	1.7%
48		1	0%
50		4	0.1%
55		1	0%
60		103	2.8%
65		6	0.2%
68		3	0.1%
75		2	0.1%

78		1	0%
80		1	0%
85		6	0.2%
90		40	1.1%
95		1	0%
100		4	0.1%
120		62	1.7%
123		1	0%
128		1	0%
145		1	0%
165		1	0%
180		41	1.1%
200		1	0%
240		6	0.2%
300		10	0.3%
320		1	0%
340		1	0%
360		1	0%
720		1	0%
Sysmiss		186	

### Q9Q9A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 3120  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3120 Format: Numeric

### Q9Q9B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 45000000  
 Type: Discrete Decimal: 0 Width: 8 Range: 0 - 45000000 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		2791	75.1%

4		1	0%
8		11	0.3%
10		8	0.2%
15		11	0.3%
20		12	0.3%
25		16	0.4%
30		75	2%
35		18	0.5%
40		9	0.2%
45		161	4.3%
48		1	0%
50		2	0.1%
55		3	0.1%
60		371	10%
65		13	0.3%
68		2	0.1%
75		2	0.1%
80		2	0.1%
85		2	0.1%
90		46	1.2%
95		1	0%
120		117	3.1%
125		3	0.1%
130		4	0.1%
150		2	0.1%
160		2	0.1%
180		26	0.7%
240		4	0.1%
45000000		1	0%
Sysmiss		186	

### Q9Q9C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 360  
 Type: Continuous    Decimal: 0    Width: 3    Range: 0 - 360    Format: Numeric

**Q9Q9D: Boys (Under age 15 years):****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 1200  
 Type: Discrete    Decimal: 0    Width: 4    Range: 0 - 1200    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		2901	78%
1		1	0%
5		1	0%
6		1	0%
8		5	0.1%
10		5	0.1%
12		1	0%
15		17	0.5%
18		1	0%
20		14	0.4%
25		15	0.4%
30		63	1.7%
35		15	0.4%
38		1	0%
40		9	0.2%
45		148	4%
46		1	0%
48		1	0%
50		4	0.1%
55		6	0.2%
60		320	8.6%
65		3	0.1%
68		1	0%
70		1	0%
75		8	0.2%
80		3	0.1%
90		35	0.9%
95		1	0%
120		104	2.8%
125		5	0.1%

145		1	0%
150		1	0%
160		2	0.1%
175		1	0%
180		16	0.4%
240		2	0.1%
300		1	0%
440		1	0%
1200		1	0%
Sysmiss		186	

### Q10Q10A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 6000  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 6000 Format: Numeric

### Q10Q10B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 8520  
 Type: Discrete Decimal: 0 Width: 4 Range: 0 - 8520 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3573	96.1%
3		1	0%
8		3	0.1%
10		1	0%
20		2	0.1%
30		1	0%
35		5	0.1%
40		2	0.1%
45		6	0.2%
60		26	0.7%
120		7	0.2%

180		11	0.3%
200		3	0.1%
240		18	0.5%
260		1	0%
300		7	0.2%
320		1	0%
360		5	0.1%
420		5	0.1%
480		34	0.9%
500		1	0%
540		1	0%
543		1	0%
1080		1	0%
8520		1	0%
Sysmiss		186	

### Q10Q10C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 6000  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 6000 Format: Numeric

### Q10Q10D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 360000000  
 Type: Discrete Decimal: 0 Width: 9 Range: 0 - 360000000 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3580	96.3%
8		3	0.1%
10		2	0.1%
15		6	0.2%
20		1	0%
25		5	0.1%

30		1	0%
35		1	0%
40		1	0%
45		7	0.2%
55		3	0.1%
60		11	0.3%
90		2	0.1%
120		4	0.1%
140		1	0%
150		1	0%
180		12	0.3%
200		2	0.1%
240		21	0.6%
260		1	0%
300		3	0.1%
360		3	0.1%
420		3	0.1%
480		36	1%
540		2	0.1%
600		3	0.1%
780		1	0%
360000000		1	0%
Sysmiss		186	

### Q11Q11A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: -660 Maximum: 3200  
 Type: Continuous Decimal: 0 Width: 4 Range: -660 - 3200 Format: Numeric

### Q11Q11B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1000  
 Type: Discrete Decimal: 0 Width: 4 Range: 0 - 1000 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3510	94.4%
1		1	0%
2		2	0.1%
7		1	0%
8		6	0.2%
10		3	0.1%
12		1	0%
15		22	0.6%
20		8	0.2%
25		4	0.1%
30		12	0.3%
35		13	0.3%
45		25	0.7%
50		1	0%
55		9	0.2%
60		34	0.9%
68		1	0%
80		1	0%
90		2	0.1%
100		2	0.1%
120		13	0.3%
150		1	0%
180		13	0.3%
240		6	0.2%
300		7	0.2%
360		2	0.1%
420		3	0.1%
450		1	0%
480		8	0.2%
510		1	0%
540		1	0%
720		2	0.1%
1000		1	0%
Sysmiss		186	

**Q11Q11C: Men (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 3000  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3000 Format: Numeric

**Q11Q11D: Boys (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1000  
 Type: Discrete Decimal: 0 Width: 4 Range: 0 - 1000 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3603	96.9%
6		1	0%
8		2	0.1%
10		5	0.1%
15		13	0.3%
20		1	0%
22		1	0%
25		7	0.2%
30		4	0.1%
35		17	0.5%
38		1	0%
40		1	0%
45		11	0.3%
55		2	0.1%
58		1	0%
60		21	0.6%
120		8	0.2%
180		8	0.2%
240		1	0%
300		1	0%
480		4	0.1%

540		1	0%
600		1	0%
625		1	0%
1000		1	0%
Sysmiss		186	

### Q12Q12A: Women (Age 15 yrs and older) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 3500  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3500 Format: Numeric

### Q12Q12B: Girls (Under age 15 years) -

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 660  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 660 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3328	89.5%
4		1	0%
8		8	0.2%
10		2	0.1%
15		21	0.6%
20		21	0.6%
25		11	0.3%
30		29	0.8%
35		25	0.7%
40		8	0.2%
45		53	1.4%
50		3	0.1%
55		4	0.1%
58		1	0%
60		81	2.2%
65		4	0.1%

75		2	0.1%
90		31	0.8%
95		1	0%
100		1	0%
120		38	1%
145		1	0%
175		1	0%
180		18	0.5%
240		9	0.2%
245		1	0%
300		10	0.3%
420		1	0%
480		1	0%
540		1	0%
660		1	0%
Sysmiss		186	

### Q12Q12C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 120000000  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 120000000 Format: Numeric

### Q12Q12D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 540  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 540 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3383	91%
8		5	0.1%
10		8	0.2%
11		1	0%
14		1	0%

15		19	0.5%
20		15	0.4%
25		14	0.4%
30		33	0.9%
35		13	0.3%
40		6	0.2%
45		43	1.2%
55		9	0.2%
60		51	1.4%
65		3	0.1%
67		1	0%
75		1	0%
85		2	0.1%
90		22	0.6%
95		1	0%
100		2	0.1%
120		37	1%
130		1	0%
145		1	0%
180		14	0.4%
190		1	0%
200		1	0%
210		1	0%
240		11	0.3%
300		12	0.3%
360		2	0.1%
420		1	0%
500		1	0%
540		1	0%
Sysmiss		186	

### R1R1A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717    Invalid: 186    Minimum: 0    Maximum: 120  
 Type: Discrete    Decimal: 0    Width: 3    Range: 0 - 120    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3464	93.2%
1		223	6%
2		25	0.7%
3		3	0.1%
8		1	0%
120		1	0%
Sysmiss		186	

### R1R1B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3530	95%
1		145	3.9%
2		37	1%
3		4	0.1%
8		1	0%
Sysmiss		186	

### R1R1C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3578	96.3%
1		129	3.5%
2		7	0.2%
3		1	0%
5		1	0%
8		1	0%
Sysmiss		186	

### R1R1D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 7 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3528	94.9%
1		159	4.3%
2		26	0.7%
3		1	0%
4		1	0%
7		2	0.1%
Sysmiss		186	

### R1R1E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3717 Invalid: 186 Minimum: 0 Maximum: 1000000  
 Type: Discrete Decimal: 0 Width: 7 Range: 0 - 1000000 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3390	91.2%

1		272	7.3%
2		44	1.2%
3		7	0.2%
4		2	0.1%
8		1	0%
1000000		1	0%
Sysmiss		186	

### R2R2A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 253 Invalid: 3650 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		95	37.5%
1		150	59.3%
2		6	2.4%
3		2	0.8%
Sysmiss		3650	

### R2R2B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 187 Invalid: 3716 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		78	41.7%
1		101	54%
2		7	3.7%
3		1	0.5%

Sysmiss		3716	
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### R2R2C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 139 Invalid: 3764 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		60	43.2%
1		76	54.7%
2		2	1.4%
3		1	0.7%
Sysmiss		3764	

### R2R2D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 189 Invalid: 3714 Minimum: 0 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		75	39.7%
1		105	55.6%
2		9	4.8%
Sysmiss		3714	

### R2R2E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 327 Invalid: 3576 Minimum: 0 Maximum: 4

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 4    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		66	20.2%
1		223	68.2%
2		31	9.5%
3		5	1.5%
4		2	0.6%
Sysmiss		3576	

### R3R3A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 253    Invalid: 3650    Minimum: 0    Maximum: 8

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 8    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		153	60.5%
1		92	36.4%
2		6	2.4%
3		1	0.4%
8		1	0.4%
Sysmiss		3650	

### R3R3B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 187    Invalid: 3716    Minimum: 0    Maximum: 3

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 3    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		117	62.6%
1		66	35.3%
2		3	1.6%
3		1	0.5%
Sysmiss		3716	

### R3R3C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 139 Invalid: 3764 Minimum: 0 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 5 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		91	65.5%
1		46	33.1%
3		1	0.7%
5		1	0.7%
Sysmiss		3764	

### R3R3D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 189 Invalid: 3714 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		110	58.2%
1		73	38.6%
2		5	2.6%
3		1	0.5%
Sysmiss		3714	

**R3R3E: Young Children (0-4 years)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 327 Invalid: 3576 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		110	33.6%
1		189	57.8%
2		24	7.3%
3		4	1.2%
Sysmiss		3576	

**R4R4A: Women (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 100 Invalid: 3803 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		16	16%
1		80	80%
2		3	3%
3		1	1%
Sysmiss		3803	

**R4R4B: Girls (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 70 Invalid: 3833 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		16	22.9%
1		50	71.4%
2		3	4.3%
3		1	1.4%
Sysmiss		3833	

### R4R4C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 48 Invalid: 3855 Minimum: 0 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 5 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		8	16.7%
1		38	79.2%
3		1	2.1%
5		1	2.1%
Sysmiss		3855	

### R4R4D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 79 Invalid: 3824 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		9	11.4%
1		64	81%

2		5	6.3%
3		1	1.3%
Sysmiss		3824	

### R4R4E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 217 Invalid: 3686 Minimum: 0 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		27	12.4%
1		161	74.2%
2		25	11.5%
3		4	1.8%
Sysmiss		3686	

### R5R5A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3715 Invalid: 188 Minimum: 0 Maximum: 18  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3381	91%
1		296	8%
2		29	0.8%
3		4	0.1%
5		1	0%
8		3	0.1%
18		1	0%
Sysmiss		188	

**R5R5B: Girls (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3715 Invalid: 188 Minimum: 0 Maximum: 22  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 22 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3682	99.1%
1		25	0.7%
2		1	0%
8		6	0.2%
22		1	0%
Sysmiss		188	

**R5R5C: Men (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3712 Invalid: 191 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3562	96%
1		144	3.9%
2		4	0.1%
8		2	0.1%
Sysmiss		191	

**R5R5D: Boys (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3711 Invalid: 192 Minimum: 0 Maximum: 10000000  
 Type: Discrete Decimal: 0 Width: 8 Range: 0 - 10000000 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3674	99%
1		31	0.8%
2		1	0%
6		1	0%
8		2	0.1%
10		1	0%
10000000		1	0%
Sysmiss		192	

**R5R5E: Young Children (0-4 years)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3657 Invalid: 246 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3614	98.8%
1		37	1%
2		3	0.1%
8		3	0.1%
Sysmiss		246	

**R6R6A: Women (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3715 Invalid: 188 Minimum: -30 Maximum: 70  
 Type: Discrete Decimal: 0 Width: 3 Range: -30 - 70 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
-30		1	0%
0		3698	99.5%
1		12	0.3%
8		2	0.1%
20		1	0%
70		1	0%
Sysmiss		188	

### R6R6B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3710 Invalid: 193 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3705	99.9%
1		3	0.1%
8		2	0.1%
Sysmiss		193	

### R6R6C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3708 Invalid: 195 Minimum: 0 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3704	99.9%

1		4	0.1%
Sysmiss		195	

### R6R6D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3705 Invalid: 198 Minimum: 0 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3702	99.9%
1		3	0.1%
Sysmiss		198	

### R6R6E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3657 Invalid: 246 Minimum: 0 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3653	99.9%
1		4	0.1%
Sysmiss		246	

### R7R7A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3712 Invalid: 191 Minimum: 0 Maximum: 22  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 22 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3397	91.5%
1		245	6.6%
2		56	1.5%
3		11	0.3%
5		1	0%
8		1	0%
22		1	0%
Sysmiss		191	

### R7R7B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3705 Invalid: 198 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3624	97.8%
1		76	2.1%
2		1	0%
8		4	0.1%
Sysmiss		198	

### R7R7C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3706 Invalid: 197 Minimum: 0 Maximum: 1000000  
 Type: Discrete Decimal: 0 Width: 7 Range: 0 - 1000000 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3651	98.5%
1		50	1.3%
2		3	0.1%
8		1	0%
1000000		1	0%
Sysmiss		197	

### R7R7D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3704 Invalid: 199 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3658	98.8%
1		41	1.1%
2		1	0%
6		1	0%
8		3	0.1%
Sysmiss		199	

### R7R7E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3650 Invalid: 253 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0		3634	99.6%
1		15	0.4%
8		1	0%

Sysmiss		253	
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### R8R8A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 315 Invalid: 3588 Minimum: 0 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		152	48.3%
1		157	49.8%
2		6	1.9%
Sysmiss		3588	

### R8R8B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 80 Invalid: 3823 Minimum: 0 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		27	33.8%
1		53	66.3%
Sysmiss		3823	

### R8R8C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 55 Invalid: 3848 Minimum: 0 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		17	30.9%
1		37	67.3%
2		1	1.8%
Sysmiss		3848	

### R8R8D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 45 Invalid: 3858 Minimum: 0 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		17	37.8%
1		27	60%
2		1	2.2%
Sysmiss		3858	

### R8R8E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 16 Invalid: 3887 Minimum: 0 Maximum: 1  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		2	12.5%
1		14	87.5%
Sysmiss		3887	

**R9R9A: Women (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3716 Invalid: 187 Minimum: 0 Maximum: 15  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 15 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3024	81.4%
1		594	16%
2		79	2.1%
3		15	0.4%
4		1	0%
5		1	0%
10		1	0%
15		1	0%
Sysmiss		187	

**R9R9B: Girls (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3715 Invalid: 188 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3680	99.1%
1		30	0.8%
2		2	0.1%
8		3	0.1%
Sysmiss		188	

**R9R9C: Men (Age 15 yrs and older):****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3709    Invalid: 194    Minimum: 0    Maximum: 8  
 Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 8    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3400	91.7%
1		292	7.9%
2		15	0.4%
8		2	0.1%
Sysmiss		194	

**R9R9D: Boys (Under age 15 years):****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3700    Invalid: 203    Minimum: 0    Maximum: 8  
 Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 8    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3668	99.1%
1		25	0.7%
2		2	0.1%
8		5	0.1%
Sysmiss		203	

**R9R9E: Young Children (0-4 years)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3653    Invalid: 250    Minimum: 0    Maximum: 4  
 Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 4    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3649	99.9%
1		3	0.1%
4		1	0%
Sysmiss		250	

### R10R10A: Women (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3716 Invalid: 187 Minimum: 0 Maximum: 80  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 80 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3705	99.7%
1		8	0.2%
8		1	0%
10		1	0%
80		1	0%
Sysmiss		187	

### R10R10B: Girls (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3712 Invalid: 191 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0		3708	99.9%
1		1	0%

8		3	0.1%
Sysmiss		191	

### R10R10C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3711 Invalid: 192 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3701	99.7%
1		6	0.2%
8		4	0.1%
Sysmiss		192	

### R10R10D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3709 Invalid: 194 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3703	99.8%
1		1	0%
8		5	0.1%
Sysmiss		194	

### R10R10E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3664 Invalid: 239 Minimum: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 -    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3664	100%
Sysmiss		239	

**R11R11A: Women (Age 15 yrs and older):**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 3715    Invalid: 188    Minimum: 0    Maximum: 30  
Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 30    Format: Numeric**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3701	99.6%
1		7	0.2%
2		1	0%
8		5	0.1%
30		1	0%
Sysmiss		188	

**R11R11B: Girls (Under age 15 years):**

Data file: MTF\_HH\_Main.dta

**Overview**Valid: 3714    Invalid: 189    Minimum: 0    Maximum: 8  
Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 8    Format: Numeric**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3707	99.8%
1		2	0.1%
7		1	0%

8		4	0.1%
Sysmiss		189	

### R11R11C: Men (Age 15 yrs and older):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3711 Invalid: 192 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3694	99.5%
1		12	0.3%
2		2	0.1%
8		3	0.1%
Sysmiss		192	

### R11R11D: Boys (Under age 15 years):

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 3711 Invalid: 192 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category	Cases	
0		3702	99.8%
1		7	0.2%
8		2	0.1%
Sysmiss		192	

### R11R11E: Young Children (0-4 years)

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3663 Invalid: 240 Minimum: 0 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 8 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0		3658	99.9%
1		2	0.1%
8		3	0.1%
Sysmiss		240	

**T1: Visiting parents/relatives/friends within or outside the village?**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3550 Invalid: 353 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

T.1. Visiting parents/relatives/friends within or outside the village

## CATEGORIES

Value	Category	Cases	
1	Can do herself	2467	69.5%
2	Can do with husband	766	21.6%
3	Can do with others	263	7.4%
4	other	54	1.5%
Sysmiss		353	

**T1\_OTHER: Visiting parents/relatives/friends within or outside the village? (Other)**

Data file: MTF\_HH\_Main.dta

**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 44 Range: - Format: character

## Questions and instructions

### LITERAL QUESTION

T.1. Visiting parents/relatives/friends within or outside the village. Other

### CATEGORIES

Value	Category	Cases	
		3817	98%
Can't allow her		1	0%
Do it alone		1	0%
Do not leave the camp		1	0%
Do not visit		1	0%
Do not visit friends or relatives		1	0%
Does not do visitation		1	0%
Don't even go for visit		1	0%
Don't have a female with me.		1	0%
Don't have a spouse		1	0%
Don't leave the village		1	0%
I do it myself		1	0%
I don't have a female with me.		1	0%
Most times she can be stopped by her husband		1	0%
N.A		1	0%
N/A		3	0.1%
N\A		14	0.4%
Sysmiss		7	
No female		8	0.2%
No female in hh		1	0%
No female resides in here.		1	0%
No female respondent		6	0.2%
No female with me		2	0.1%
No spouse		1	0%
No wife		1	0%
No woman		7	0.2%
No woman in the home		1	0%
No woman in the home.		1	0%
No woman in this house		1	0%
No Woman with me		1	0%
No woman with me here for now.		2	0.1%
No woman with me here.		1	0%
No woman with me.		2	0.1%

None		2	0.1%
Not Applicable		1	0%
On woman		1	0%
Respondent's spouse told her to do anything.		1	0%
Respondent does not go out .		1	0%
Separation		1	0%
There is no female in the house		1	0%
Unmarried		4	0.1%

## T2: Going to markets/banks/commercial centers/places of work.

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3549 Invalid: 354 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

### Questions and instructions

LITERAL QUESTION

T.2. Going to markets/banks/commercial centers/places of work.

CATEGORIES

Value	Category	Cases	
1	Can do herself	2886	81.3%
2	Can do with husband	299	8.4%
3	Can do with others	315	8.9%
4	other	49	1.4%
Sysmiss		354	

## T2\_OTHER: Going to markets/banks/commercial centers/places of work. (Other)

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 31 Range: - Format: character

### Questions and instructions

LITERAL QUESTION

T.2. Going to markets/banks/commercial centers/places of work. Other

CATEGORIES

Value	Category	Cases	
		3822	98.1%
Don't have a female with me.		1	0%
Don't have a spouse		1	0%
Her children can do it for her.		1	0%
I do it alone		1	0%
I do it myself		1	0%
I don't have a female with me.		1	0%
N.A		1	0%
N/,A		1	0%
N/A		2	0.1%
N\A		17	0.4%
Sysmiss		7	
No		1	0%
No female		1	0%
No spouse		1	0%
No female		7	0.2%
No female in hh		1	0%
No female resides in here.		1	0%
No female responded		1	0%
No female respondent		5	0.1%
No female with me		2	0.1%
No wife		1	0%
No woman		9	0.2%
No woman in the home		1	0%
No Woman with me		1	0%
No woman with me here for now.		2	0.1%
No woman with me here.		1	0%
No woman with me.		2	0.1%
None		2	0.1%
Not applicable		1	0%
Not Applicable		1	0%
Separation		1	0%
There is no female in the house		1	0%
Unmarried		4	0.1%

### T3: Going outside the village

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3547 Invalid: 356 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

## Questions and instructions

LITERAL QUESTION

T.3. Going outside the village

CATEGORIES

Value	Category	Cases	
1	Can do herself	2411	68%
2	Can do with husband	597	16.8%
3	Can do with others	489	13.8%
4	other	50	1.4%
Sysmiss		356	

### T3\_OTHER: Going outside the village (Other)

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 3903 Invalid:  
 Type: Discrete Width: 60 Range: - Format: character

## Questions and instructions

LITERAL QUESTION

T.3. Going outside the village. Other

CATEGORIES

Value	Category	Cases	
		3818	98%
Do not leave the camp		1	0%
Don't go outside of the village		1	0%
Don't have a female with me.		1	0%
Don't have a spouse		1	0%
Her husband can't allow her to leave the village on her own.		1	0%
I do it alone		1	0%
I do it myself		1	0%
I don't have a female with me.		1	0%
N.A		1	0%
N/A		3	0.1%
N/A		18	0.5%

Sysmiss		7	
No		1	0%
No female		7	0.2%
No female in hh		1	0%
No female resides in here.		1	0%
No female respondent		6	0.2%
No female with me		2	0.1%
No females		1	0%
No spouse		1	0%
No wife		1	0%
No woman		9	0.2%
No woman in the home		1	0%
No Woman with me		1	0%
No woman with me here for now.		2	0.1%
No woman with me here.		2	0.1%
No woman with me.		1	0%
None		2	0.1%
Not applicable		1	0%
Not Applicable		1	0%
Respondent does not go out of the village.		1	0%
Separation		1	0%
There is no female in the house		1	0%
Unmarried		4	0.1%

#### **T4\_1: If you are a member of a women's group, which type of group are you a member of/**

**Data file: MTF\_HH\_Main.dta**

#### **Overview**

Valid: 3579 Invalid: 324 Minimum: 1 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 11 Format: Numeric

#### **Questions and instructions**

##### LITERAL QUESTION

T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?

##### CATEGORIES

Value	Category	Cases	
1	Not a member	1923	53.7%
2	Religious related activities	892	24.9%
3	Health care related activities	30	0.8%

4	Income generating activities	24	0.7%
5	Self help organization	268	7.5%
6	Savings group	308	8.6%
7	Microfinance organization	14	0.4%
8	Cooperative	44	1.2%
9	Village administrative committee	4	0.1%
10	Village electrification committee	0	0%
11	other	72	2%
Sysmiss		324	

### T4\_2: If you are a member of a women's group, which type of group are you a member of/

Data file: MTF\_HH\_Main.dta

#### Overview

Valid: 417 Invalid: 3486 Minimum: 2 Maximum: 9  
 Type: Discrete Decimal: 0 Width: 2 Range: 2 - 9 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?

##### CATEGORIES

Value	Category	Cases	
1	Not a member	0	0%
2	Religious related activities	3	0.7%
3	Health care related activities	5	1.2%
4	Income generating activities	14	3.4%
5	Self help organization	85	20.4%
6	Savings group	272	65.2%
7	Microfinance organization	7	1.7%
8	Cooperative	23	5.5%
9	Village administrative committee	8	1.9%
10	Village electrification committee	0	0%
11	other	0	0%
Sysmiss		3486	

### T4\_3: If you are a member of a women's group, which type of group are you a member of/

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 57 Invalid: 3846 Minimum: 5 Maximum: 10  
 Type: Discrete Decimal: 0 Width: 2 Range: 5 - 10 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?

### CATEGORIES

Value	Category	Cases	
1	Not a member	0	0%
2	Religious related activities	0	0%
3	Health care related activities	0	0%
4	Income generating activities	0	0%
5	Self help organization	6	10.5%
6	Savings group	33	57.9%
7	Microfinance organization	4	7%
8	Cooperative	9	15.8%
9	Village administrative committee	4	7%
10	Village electrification committee	1	1.8%
11	other	0	0%
Sysmiss		3846	

## T4\_4: If you are a member of a women's group, which type of group are you a member of/

Data file: MTF\_HH\_Main.dta

## Overview

Valid: 4 Invalid: 3899 Minimum: 6 Maximum: 9  
 Type: Discrete Decimal: 0 Width: 2 Range: 6 - 9 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to?

### CATEGORIES

Value	Category	Cases	
1	Not a member	0	0%
2	Religious related activities	0	0%
3	Health care related activities	0	0%
4	Income generating activities	0	0%
5	Self help organization	0	0%

6	Savings group	3	75%
7	Microfinance organization	0	0%
8	Cooperative	0	0%
9	Village administrative committee	1	25%
10	Village electrification committee	0	0%
11	other	0	0%
Sysmiss		3899	

#### **T4\_OTHER: If you are a member of a women's group, which type of group are you a member of/**

**Data file: MTF\_HH\_Main.dta**

#### **Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 38 Range: - Format: character

#### **Questions and instructions**

##### LITERAL QUESTION

T.4. If you are a member of a women's group, which type of group are you a member of/do you belong to? Other.

##### CATEGORIES

Value	Category	Cases	
		3831	98.3%
Birthday club		1	0%
Birthday social club		1	0%
Chair Lady		1	0%
Don't have a spouse		1	0%
Farming		1	0%
Farming activities		2	0.1%
Farming cool		2	0.1%
Kuu		1	0%
Marketers		1	0%
Mid wifery		2	0.1%
Midwifery Group		1	0%
N.A		1	0%
N/A		3	0.1%
N/A		13	0.3%
Sysmiss		7	
No female		3	0.1%
No female in hh		1	0%

No female in my household.		1	0%
No female is a part of this household.		1	0%
No female respondent		2	0.1%
No female respondent.		1	0%
No Spouse		1	0%
No wife		1	0%
No woman		3	0.1%
No Woman with me		1	0%
No woman with me here for now.		1	0%
No woman with me here.		1	0%
Non		1	0%
None		2	0.1%
Not applicable		1	0%
Red cross women wing		1	0%
Self help initiative		1	0%
Self help initiative group		1	0%
Separation		1	0%
Social /entertainment		1	0%
Social club		1	0%
Social group		1	0%
Social Group		1	0%
There is no female in the house		1	0%
Traditional council		1	0%
Unmarried		3	0.1%

## T5: What do you think are the main constraints women face in participating in organi

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 1599 Invalid: 2304 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

T.5. What do you think are the main constraints women face in participating in organizations or activities in the area?

#### CATEGORIES

Value	Category	Cases	
1	Limited time	436	27.3%
2	Lack of support from family	271	16.9%

3	Limited confidence	255	15.9%
4	Limited education	637	39.8%
Sysmiss		2304	

## T6: Are you a member of any community/village electrification committee?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3571 Invalid: 332 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

### Questions and instructions

LITERAL QUESTION

T.6. Are a member of the village electrification committee?

CATEGORIES

Value	Category	Cases	
1	Yes	26	0.7%
2	No	3545	99.3%
Sysmiss		332	

## T7: How many times do you meet in a month?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 26 Invalid: 3877 Minimum: 0 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 12 Format: Numeric

### Questions and instructions

LITERAL QUESTION

T.7. How many times do you meet in a month?

CATEGORIES

Value	Category	Cases	
0		1	3.8%
1		1	3.8%
2		11	42.3%
3		8	30.8%
4		3	11.5%
7		1	3.8%

12		1	3.8%
Sysmiss		3877	

## T8: Do you own a bank account?

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3575 Invalid: 328 Minimum: 1 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

### Questions and instructions

LITERAL QUESTION

T.8. Do you own a bank account?

CATEGORIES

Value	Category	Cases	
1	No account	3051	85.3%
2	Own account	404	11.3%
3	Joint account (with spouse)	95	2.7%
4	Joint account (with group)	25	0.7%
Sysmiss		328	

## METADATASUR\_RESULT: Final result of the survey

Data file: MTF\_HH\_Main.dta

### Overview

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

### Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Complete	3725	95.5%
2	Incomplete	7	0.2%
3	Rejected	13	0.3%
4	Attempted 3 unsuccessful visits, sample replaced	17	0.4%
5	Structure not a household	140	3.6%
Sysmiss		1	

**METADATAEND:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3902 Invalid: 1  
 Type: Continuous Width: 20 Range: - Format: character

**METADATATODAY: -****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3902 Invalid: 1  
 Type: Continuous Width: 10 Range: - Format: Date

**METADATADEVICEID: -****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3903 Invalid:  
 Type: Discrete Width: 16 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		1	0%
12c168c9d26a97ee		127	3.3%
16824b3593f6879e		18	0.5%
197305b25cfe1bd3		2	0.1%
1fbd40db75685306		127	3.3%
2b0b41d245795453		161	4.1%
2d07550f588ab0f0		150	3.8%
3cf97bce071fbe45		152	3.9%
43c0e4dceffd1648		168	4.3%
56e5b3c0e85d778e		154	3.9%
58ad094b141a93f6		87	2.2%
5adc06759e55e562		50	1.3%
5df5ee6e0d811f77		101	2.6%
62e4f9bf1ddefb3b		195	5%

68113c0b7526e2cd		173	4.4%
6b34e58045e53b08		149	3.8%
6d14b5530a84281e		190	4.9%
7cc8cb01a04abfd8		190	4.9%
7ebb08d31ecde998		155	4%
81eed8c85a0e51d8		1	0%
97e04b33256ba709		125	3.2%
a2f0fc9d4b4d5f34		166	4.3%
a96f9e88d68d9a26		84	2.2%
ac938fc1a1535e2f		32	0.8%
ae1e40112e68492		171	4.4%
b0b42e19356d6849		9	0.2%
b8fe4ff172b5e887		169	4.3%
ccb82b76cd9c4526		183	4.7%
cd0424c86f37593f		63	1.6%
dd924bccb1e7c76		185	4.7%
e1d62e85857cec34		4	0.1%
e5031dd34e2f989f		120	3.1%
e52ff0eb3b77e1b4		95	2.4%
e597a83eb8d6237a		12	0.3%
e7b0a941eeae066		68	1.7%
eb3dc066683ef9df		37	0.9%
ec9bbb4ecb3a7040		26	0.7%
ffcc7fc225163f0a		3	0.1%

**ND\_1:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 2952 Invalid: 951

Type: Continuous Width: 20 Range: - Format: character

**ND\_2:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 2493 Invalid: 1410

Type: Continuous Width: 20 Range: - Format: character

**ND\_3:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 2488 Invalid: 1415  
 Type: Continuous Width: 20 Range: - Format: character

**SS: Supervisor: Scan barcode once form is reviewed and approved:****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3902 Invalid: 1 Minimum: 1000 Maximum: 5000  
 Type: Discrete Decimal: 0 Width: 4 Range: 1000 - 5000 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1000		941	24.1%
2000		642	16.5%
3000		814	20.9%
4000		655	16.8%
5000		850	21.8%
Sysmiss		1	

**SUR\_RESULT\_SS: Final result of the survey (Supervisor)****Data file:** MTF\_HH\_Main.dta**Overview**

Valid: 3902 Invalid: 1 Minimum: 1 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Complete	3760	96.4%
2	Incomplete	4	0.1%
3	Rejected	7	0.2%
4	Attempted 3 unsuccessful visits, sample replaced	17	0.4%
5	Structure not a household	114	2.9%

Sysmiss

1

**METAINSTANCEID: meta-instanceID****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903    Invalid:  
Type: Continuous    Width: 41    Range: -    Format: character

---

**KEY: Key****Data file: MTF\_HH\_Main.dta****Overview**

Valid: 3903    Invalid:  
Type: Continuous    Width: 41    Range: -    Format: character

---

**A2A: Scan a household roster barcode to establish an individual ID for this responden**

Data file: MTF\_HH\_Characteristics.dta

**Overview**

Valid: 14759    Invalid: 4649    Minimum: 1    Maximum: 6730963  
 Type: Discrete    Decimal: 0    Width: 7    Range: 1 - 6730963    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		4912	33.3%
2		3082	20.9%
3		2163	14.7%
4		1632	11.1%
5		1115	7.6%
6		746	5.1%
7		484	3.3%
8		305	2.1%
9		190	1.3%
10		110	0.7%
150		1	0%
210		1	0%
250		3	0%
320		1	0%
340		1	0%
450		1	0%
540		1	0%
550		1	0%
1000		1	0%
3000		6	0%
5000		2	0%
6730963		1	0%
Sysmiss		4649	

**A3: Is \${A2} male or female?**

Data file: MTF\_HH\_Characteristics.dta

**Overview**

Valid: 19309    Invalid: 99    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

A.3. Is [NAME] male or female?

#### CATEGORIES

Value	Category	Cases	
1	Male	9287	48.1%
2	Female	10022	51.9%
Sysmiss		99	

### A4: What is the relationship of {A2} to household head?

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 19310 Invalid: 98 Minimum: 1 Maximum: 14  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 14 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

A.4. What is the relationship of [NAME] to household head?

#### CATEGORIES

Value	Category	Cases	
1	Head	3551	18.4%
2	Wife/Spouse	2624	13.6%
3	Child/adopted child	9030	46.8%
4	Grandchild	1304	6.8%
5	Niece/Nephew	740	3.8%
6	Father/Mother	224	1.2%
7	Sister/Brother	761	3.9%
8	Son/Daughter-in-law	304	1.6%
9	Brother/Sister-in-law	258	1.3%
10	Father/Mother-in-law	71	0.4%
11	Grandfather/mother	49	0.3%
12	Other relative	281	1.5%
13	Servant/servant's relative	16	0.1%
14	Other non-relative	97	0.5%
Sysmiss		98	

**A5: How old is \${A2}?****Data file:** MTF\_HH\_Characteristics.dta**Overview**

Valid: 19291    Invalid: 117    Minimum: 0    Maximum: 888  
 Type: Continuous    Decimal: 0    Width: 3    Range: 0 - 888    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

A.5. How old is [NAME]?

**A7: Has \${A2} ever attended school?****Data file:** MTF\_HH\_Characteristics.dta**Overview**

Valid: 17399    Invalid: 2009    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

A.7. Has [NAME] ever attended school?

CATEGORIES

Value	Category	Cases	
1	Yes	12981	74.6%
2	No	4418	25.4%
Sysmiss		2009	

**A8: Is \${A2} currently attending school?****Data file:** MTF\_HH\_Characteristics.dta**Overview**

Valid: 12978    Invalid: 6430    Minimum: 1    Maximum: 2  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

A.8. Is [NAME] currently attending school?

CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

1	Yes	7438	57.3%
2	No	5540	42.7%
Sysmiss		6430	

### A9: What is the highest educational qualification acquired by \${A2}?

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 12980 Invalid: 6428 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

A.9. What is the highest educational qualification acquired by [NAME]?

##### CATEGORIES

Value	Category	Cases	
1	None	1778	13.7%
2	Primary	5587	43%
3	Secondary school	4372	33.7%
4	Vocational Technical School after Primary	54	0.4%
5	Vocational Technical School after Secondary	215	1.7%
6	University	921	7.1%
7	Post-Graduate	53	0.4%
Sysmiss		6428	

### A9A: How many year of \${A9a} has \${A2} completed?

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 12978 Invalid: 6430 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

A.9A. How many years of [A.9] has [NAME] completed?

##### CATEGORIES

Value	Category	Cases	
0		993	7.7%

1		2832	21.8%
2		2375	18.3%
3		2068	15.9%
4		1483	11.4%
5		1018	7.8%
6		946	7.3%
7		189	1.5%
8		192	1.5%
9		192	1.5%
10		135	1%
11		142	1.1%
12		251	1.9%
13		42	0.3%
14		114	0.9%
16		2	0%
20		1	0%
32		1	0%
888		2	0%
Sysmiss		6430	

### A11: How frequently does $\{A2\}$ cook food for the household?

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 13838    Invalid: 5570    Minimum: 1    Maximum: 6  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 6    Format: Numeric

#### Questions and instructions

LITERAL QUESTION

A.11. How frequently does [NAME] cook food for the household?

CATEGORIES

Value	Category	Cases	
1	Everyday	3499	25.3%
2	A few times in a week	2212	16%
3	Once a week	704	5.1%
4	A few times in a month	557	4%
5	Once a month	493	3.6%
6	Never	6373	46.1%
Sysmiss		5570	

**A13: What was \${A2}'s main occupation for the last 12 months?****Data file: MTF\_HH\_Characteristics.dta****Overview**

Valid: 12345    Invalid: 7063    Minimum: 1    Maximum: 16  
 Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 16    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

A.13. What was [NAME]'s main occupation for the last 12 months?

## CATEGORIES

Value	Category	Cases	
1	Wage Employee, Non-Farm	957	7.8%
2	Wage Employee, Farm	485	3.9%
3	Self-Employed Non-Farm-Business enterprise	1312	10.6%
4	Self-Employed Non-Farm-Independent contractor, technician, professional, etc.	412	3.3%
5	Self-Employed Agriculture/Livestock	2417	19.6%
6	Assistance in family enterprise	175	1.4%
7	Casual/Day Laborer	390	3.2%
8	Intern/free labor/voluntary work	51	0.4%
9	Student	3323	26.9%
10	Retired/pensioner	64	0.5%
11	Too old to work	366	3%
12	Disabled	94	0.8%
13	Job Seeker	322	2.6%
14	Unemployed	1104	8.9%
15	Housewife	852	6.9%
16	other	21	0.2%
Sysmiss		7063	

**A13\_OTHER: What was \${A2}'s main occupation for the last 12 months? (Other)****Data file: MTF\_HH\_Characteristics.dta****Overview**

Valid: 19408    Invalid:  
 Type: Discrete    Width: 35    Range: -    Format: character

## Questions and instructions

### LITERAL QUESTION

A.13. What was [NAME]'s main occupation for the last 12 months? Other

### CATEGORIES

Value	Category	Cases	
		19376	99.8%
Apprentice		1	0%
Assisting Parents with farming work		1	0%
Black smithing		1	0%
Brooker		1	0%
Classroom Teacher		1	0%
Coal production		1	0%
Cusmothology		1	0%
Daily Hire / Mason		1	0%
Dietitian		1	0%
Driver		2	0%
Drop out of school		2	0%
Footballer		1	0%
House help		1	0%
House maid		1	0%
House work		1	0%
Moj		1	0%
Movie Actor		1	0%
Note doing anything		1	0%
Pastor		3	0%
Pregnant		2	0%
Security personnel		2	0%
Sell		1	0%
Sick person (mental sickness)		1	0%
Volunteering with an NGO		1	0%
Welding		1	0%
Work as store boy		1	0%

**A14: Please select the kind of trade or business \$ {A2} main occupation best fits from**

Data file: MTF\_HH\_Characteristics.dta

### Overview

Valid: 5654 Invalid: 13754 Minimum: 1 Maximum: 21

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 21    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

A.14. Please describe the kind of trade or business [NAME]'s main occupation best fits from the list of industries.

## CATEGORIES

Value	Category	Cases	
1	A - Agriculture, forestry and fishing	2747	48.6%
2	B - Mining and quarrying	58	1%
3	C - Manufacturing	119	2.1%
4	D - Electricity, gas, steam and air conditioning supply	24	0.4%
5	E - Water supply; sewerage, waste management and remediation activities	13	0.2%
6	F - Construction	137	2.4%
7	G - Wholesale and retail trade; repair of motor vehicles and motorcycles	718	12.7%
8	H - Transportation and storage	129	2.3%
9	I - Accommodation and food service activities	336	5.9%
10	J - Information and communication	40	0.7%
11	K - Financial and insurance activities	36	0.6%
12	L - Real estate activities	5	0.1%
13	M - Professional, scientific and technical activities	253	4.5%
14	N - Administrative and support service activities	105	1.9%
15	O - Public administration and defense; compulsory social security	116	2.1%
16	P - Education	213	3.8%
17	Q - Human health and social work activities	134	2.4%
18	R - Arts, entertainment and recreation	49	0.9%
19	S - Other service activities	339	6%
20	T - Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use	73	1.3%
21	U - Activities of extraterritorial organizations and bodies	10	0.2%
Sysmiss		13754	

**A15: Out of the last 12 months, how many months was \${A2} engaged in this activity?**

Data file: MTF\_HH\_Characteristics.dta

**Overview**Valid: 5664    Invalid: 13744    Minimum: 0    Maximum: 12  
Type: Discrete    Decimal: 0    Width: 2    Range: 0 - 12    Format: Numeric

## Questions and instructions

### LITERAL QUESTION

A.15. Out of the last 12 months, how many months were [NAME] engaged in this activity?

### CATEGORIES

Value	Category	Cases	
0		6	0.1%
1		30	0.5%
2		23	0.4%
3		37	0.7%
4		25	0.4%
5		44	0.8%
6		79	1.4%
7		19	0.3%
8		104	1.8%
9		55	1%
10		210	3.7%
11		215	3.8%
12		4817	85%
Sysmiss		13744	

### A16: How many days per month does \${A2} work in this activity?

Data file: MTF\_HH\_Characteristics.dta

### Overview

Valid: 6228 Invalid: 13180 Minimum: 0 Maximum: 31  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 31 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

A.16. How many days per month does [NAME] work in this activity?

### CATEGORIES

Value	Category	Cases	
0		3	0%
1		2	0%
2		3	0%
3		7	0.1%
4		15	0.2%
5		40	0.6%

6		56	0.9%
7		15	0.2%
8		13	0.2%
9		1	0%
10		15	0.2%
12		79	1.3%
14		14	0.2%
15		66	1.1%
16		26	0.4%
17		2	0%
18		9	0.1%
19		1	0%
20		470	7.5%
21		52	0.8%
22		104	1.7%
23		17	0.3%
24		617	9.9%
25		397	6.4%
26		1661	26.7%
27		929	14.9%
28		437	7%
29		35	0.6%
30		510	8.2%
31		632	10.1%
Sysmiss		13180	

### A18: Does $\{A2\}$ operate any non-agricultural/business/enterprise within this household

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 6226 Invalid: 13182 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

A.18. Does [NAME] operate any non-agricultural/ business/ enterprise within this household or compound?

##### CATEGORIES

Value	Category	Cases	
1	Yes	494	7.9%

2	No	5732	92.1%
Sysmiss		13182	

### A19: How many employees does this business/enterprise have?

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 494 Invalid: 18914 Minimum: 0 Maximum: 60  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 60 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

A.19. How many employees does this business/ enterprise have?

CATEGORIES

Value	Category	Cases	
0		386	78.1%
1		58	11.7%
2		23	4.7%
3		7	1.4%
4		4	0.8%
5		2	0.4%
6		2	0.4%
7		2	0.4%
8		4	0.8%
9		1	0.2%
11		2	0.4%
12		1	0.2%
25		1	0.2%
60		1	0.2%
Sysmiss		18914	

### PARENT\_KEY: Parent key

Data file: MTF\_HH\_Characteristics.dta

#### Overview

Valid: 19408 Invalid:  
 Type: Continuous Width: 41 Range: - Format: character

**KEY: Key**

**Data file: MTF\_HH\_Characteristics.dta**

**Overview**

Valid: 19408    Invalid:  
Type: Continuous    Width: 54    Range: -    Format: character

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**SETOFA: Household Roster**

**Data file: MTF\_HH\_Characteristics.dta**

**Overview**

Valid: 19408    Invalid:  
Type: Continuous    Width: 50    Range: -    Format: character

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**C61\_1: Typical or Worst Month labeling set****Data file:** MTF\_HH\_SectionC1.dta**Overview**

Valid: 366 Invalid:  
 Type: Discrete Width: 7 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
typical		272	74.3%
worst		94	25.7%

**C61: Do you receive information about a “load-shedding” schedule (load shedding is th****Data file:** MTF\_HH\_SectionC1.dta**Overview**

Valid: 365 Invalid: 1 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.61 Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the mini grid)?

## CATEGORIES

Value	Category	Cases	
1	Yes	116	31.8%
2	No	249	68.2%
Sysmiss		1	

**C62: How many hours of electricity are available each day and night from the mini gri****Data file:** MTF\_HH\_SectionC1.dta**Overview**

Valid: 363 Invalid: 3 Minimum: 0 Maximum: 24  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 24 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.62. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)

## CATEGORIES

Value	Category	Cases	
0		5	1.4%
2		2	0.6%
3		8	2.2%
4		8	2.2%
5		9	2.5%
6		12	3.3%
7		5	1.4%
8		19	5.2%
9		12	3.3%
10		24	6.6%
11		43	11.8%
12		153	42.1%
13		4	1.1%
14		8	2.2%
15		3	0.8%
16		9	2.5%
17		9	2.5%
18		5	1.4%
20		2	0.6%
21		1	0.3%
23		1	0.3%
24		21	5.8%
Sysmiss		3	

### C63: How many hours of electricity are available each evening, from 6:00 pm to 10:00

Data file: MTF\_HH\_SectionC1.dta

#### Overview

Valid: 362 Invalid: 4 Minimum: 0 Maximum: 4  
 Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.63. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)

##### CATEGORIES

Value	Category	Cases	
0		7	1.9%

1		4	1.1%
2		32	8.8%
3		73	20.2%
4		246	68%
Sysmiss		4	

### C64: How many hours of electricity do you use each day and night from the mini grid?

Data file: MTF\_HH\_SectionC1.dta

#### Overview

Valid: 362 Invalid: 4 Minimum: 0 Maximum: 888

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.64. How many hours of electricity do you use each day from the mini-grid?

##### CATEGORIES

Value	Category	Cases	
0		5	1.4%
2		1	0.3%
3		8	2.2%
4		9	2.5%
5		12	3.3%
6		19	5.2%
7		6	1.7%
8		16	4.4%
9		15	4.1%
10		25	6.9%
11		40	11%
12		151	41.7%
13		2	0.6%
14		11	3%
15		5	1.4%
16		10	2.8%
17		7	1.9%
18		1	0.3%
21		1	0.3%
23		1	0.3%
24		13	3.6%

888		4	1.1%
Sysmiss		4	

### C65: How many outages/blackouts occur in a week?

Data file: MTF\_HH\_SectionC1.dta

#### Overview

Valid: 364 Invalid: 2 Minimum: 0 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

C.65. How many outages/blackouts occur in a week?

CATEGORIES

Value	Category	Cases	
0		7	1.9%
1		20	5.5%
2		24	6.6%
3		19	5.2%
4		6	1.6%
5		2	0.5%
6		1	0.3%
7		2	0.5%
10		1	0.3%
14		1	0.3%
17		1	0.3%
72		1	0.3%
111		92	25.3%
888		187	51.4%
Sysmiss		2	

### C66: What is the total duration of all the outages/blackouts in a week?

Data file: MTF\_HH\_SectionC1.dta

#### Overview

Valid: 272 Invalid: 94 Minimum: 0 Maximum: 888000000  
 Type: Discrete Decimal: 0 Width: 9 Range: 0 - 888000000 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.66. What is the total duration of all the outages/blackouts in a week?

### CATEGORIES

Value	Category	Cases	
0		5	1.8%
1		6	2.2%
2		12	4.4%
3		6	2.2%
4		9	3.3%
6		3	1.1%
7		1	0.4%
8		2	0.7%
10		3	1.1%
12		1	0.4%
15		1	0.4%
17		1	0.4%
20		1	0.4%
24		3	1.1%
30		3	1.1%
32		1	0.4%
48		4	1.5%
60		4	1.5%
72		1	0.4%
90		1	0.4%
120		3	1.1%
168		3	1.1%
180		2	0.7%
420		1	0.4%
888		193	71%
8880000		1	0.4%
888000000		1	0.4%
Sysmiss		94	

**PARENT\_KEY:** Parent key

**Data file:** MTF\_HH\_SectionC1.dta

## Overview

Valid: 366 Invalid:  
Type: Continuous Width: 41 Range: - Format: character

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### KEY: Key

Data file: MTF\_HH\_SectionC1.dta

## Overview

Valid: 366 Invalid:  
Type: Continuous Width: 63 Range: - Format: character

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### SETOFC61\_C66: Typical and Worst Months of Electricity

Data file: MTF\_HH\_SectionC1.dta

## Overview

Valid: 366 Invalid:  
Type: Continuous Width: 60 Range: - Format: character

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**C148B: Is this information for the worst or a typical month?****Data file:** MTF\_HH\_SectionC2.dta**Overview**

Valid: 552 Invalid:  
 Type: Discrete Width: 7 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
typical		407	73.7%
worst		145	26.3%

**C148: How many hours do you receive service from your main solar device each day and n****Data file:** MTF\_HH\_SectionC2.dta**Overview**

Valid: 550 Invalid: 2 Minimum: 1 Maximum: 888 Mean: 37.0145454545455 Standard deviation:  
 152.585106495661  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

C.148. How many hours do you receive service from this [DEVICE] each day and night? (max 24 hours)

## CATEGORIES

Value	Category	Cases	
1		4	0.7%
2		18	3.3%
3		38	6.9%
4		31	5.6%
5		43	7.8%
6		62	11.3%
7		11	2%
8		35	6.4%
9		10	1.8%
10		25	4.5%
11		24	4.4%
12		189	34.4%
13		10	1.8%
14		7	1.3%

15		1	0.2%
17		1	0.2%
20		1	0.2%
24		21	3.8%
192		2	0.4%
888		17	3.1%
Sysmiss		2	

### C149: How many hours is service available from this main solar device each evening, fr

Data file: MTF\_HH\_SectionC2.dta

#### Overview

Valid: 549 Invalid: 3 Minimum: 0 Maximum: 888 Mean: 35.4571948998178 Standard deviation: 165.926189751352

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

C.149. How many hours is service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm? (max 4 hours)

##### CATEGORIES

Value	Category	Cases	
0		5	0.9%
1		17	3.1%
2		164	29.9%
3		73	13.3%
4		259	47.2%
5		1	0.2%
6		3	0.5%
11		1	0.2%
12		6	1.1%
888		20	3.6%
Sysmiss		3	

### C150: How many hours do you actually use your main solar device each day for lighting

Data file: MTF\_HH\_SectionC2.dta

#### Overview

Valid: 547 Invalid: 5 Minimum: 0 Maximum: 888 Mean: 29.4277879341865 Standard deviation: 134.377917534549

Type: Discrete Decimal: 0 Width: 3 Range: 0 - 888 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

C.150. How many hours do you actually use the [DEVICE] each day for lighting and other applications? (max 24 hours)

### CATEGORIES

Value	Category	Cases	
0		5	0.9%
1		8	1.5%
2		25	4.6%
3		50	9.1%
4		38	6.9%
5		42	7.7%
6		66	12.1%
7		12	2.2%
8		36	6.6%
9		9	1.6%
10		25	4.6%
11		23	4.2%
12		171	31.3%
13		8	1.5%
14		6	1.1%
17		1	0.2%
18		1	0.2%
20		1	0.2%
24		6	1.1%
192		1	0.2%
888		13	2.4%
Sysmiss		5	

### PARENT\_KEY: Parent key

Data file: MTF\_HH\_SectionC2.dta

### Overview

Valid: 552 Invalid:

Type: Continuous Width: 41 Range: - Format: character

### KEY: Key

Data file: MTF\_HH\_SectionC2.dta

## Overview

Valid: 552 Invalid:  
Type: Continuous Width: 64 Range: - Format: character

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## ■ SETOFC148\_150: Worst Months of Electricity

Data file: MTF\_HH\_SectionC2.dta

## Overview

Valid: 552 Invalid:  
Type: Continuous Width: 61 Range: - Format: character

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**C169\_POS:****Data file:** MTF\_HH\_SectionC3.dta**Overview**

Valid: 6250 Invalid:

Type: Discrete Width: 5 Range: - Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		62	1%
C169		274	4.4%
C170		54	0.9%
C171		92	1.5%
C172		161	2.6%
C173		289	4.6%
C174		2210	35.4%
C175		246	3.9%
C176		180	2.9%
C177		652	10.4%
C178		6	0.1%
C179		90	1.4%
C180		16	0.3%
C181		1	0%
C182		79	1.3%
C183		3	0%
C184		1	0%
C185		12	0.2%
C186		8	0.1%
C188		12	0.2%
C190		85	1.4%
C191		16	0.3%
C192		1	0%
C193		154	2.5%
C194		7	0.1%
C195		5	0.1%
C196		3	0%
C198		71	1.1%
C199		132	2.1%
C200		7	0.1%

C201		11	0.2%
C202		30	0.5%
C203		510	8.2%
C204		32	0.5%
C205		438	7%
C206		254	4.1%
C207		3	0%
other		43	0.7%

**C169\_LBL:****Data file:** MTF\_HH\_SectionC3.dta**Overview**

Valid: 6250    Invalid:  
 Type: Discrete    Width: 36    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		62	1%
Air cooler (Central Air)		8	0.1%
Air cooler (External Unit)		12	0.2%
Black & White TV		32	0.5%
Blender		3	0%
Compact Fluorescent Light (CFL) Bulb		92	1.5%
Computer		85	1.4%
Electric battery charger		7	0.1%
Electric hair dryer		3	0%
Electric hot water pot/kettle		7	0.1%
Electric stove/range		5	0.1%
Electric Toaster		1	0%
Electric water cooler		1	0%
Electronic Tablet		11	0.2%
Fan		652	10.4%
Flat color TV		254	4.1%
Fluorescent Tube		54	0.9%
Freezer		154	2.5%
Incandescent Light Bulb		274	4.4%

Iron		79	1.3%
LED Light Bulb		161	2.6%
Light Bulb, Other/Unknown type		289	4.6%
Microwave oven		16	0.3%
Other		43	0.7%
Printer		16	0.3%
Radio		510	8.2%
Radio/CD Players/sound system		246	3.9%
Refrigerator		90	1.4%
Regular Color TV		438	7%
Regular mobile phone charger		132	2.1%
Rice cooker		6	0.1%
Satellite dish		30	0.5%
Sewing machine		1	0%
Smartphone (internet phone) charger		71	1.1%
Torch/flashlight/ lantern		2210	35.4%
VCD/DVD		180	2.9%
Washing machine		3	0%
Water heater		12	0.2%

## C169\_RPT\_POS:

Data file: MTF\_HH\_SectionC3.dta

### Overview

Valid: 6250 Invalid: Minimum: 1 Maximum: 18 Mean: 2.33184 Standard deviation: 2.0517299407378  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 18 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1		3116	49.9%
2		1200	19.2%
3		733	11.7%
4		480	7.7%
5		280	4.5%
6		155	2.5%
7		95	1.5%
8		61	1%

9		39	0.6%
10		25	0.4%
11		18	0.3%
12		15	0.2%
13		11	0.2%
14		8	0.1%
15		7	0.1%
16		3	0%
17		3	0%
18		1	0%

### C169A: How many @@ in working condition does your household own?

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6181 Invalid: 69 Minimum: 0 Maximum: 65 Mean: 2.19268726743245 Standard deviation: 2.4013719603569

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 65 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

a. How many [ITEM] in working condition does your household own?

##### CATEGORIES

Value	Category	Cases	
0		38	0.6%
1		3297	53.3%
2		1370	22.2%
3		619	10%
4		284	4.6%
5		179	2.9%
6		125	2%
7		46	0.7%
8		57	0.9%
9		29	0.5%
10		38	0.6%
11		15	0.2%
12		35	0.6%
13		8	0.1%
14		5	0.1%

15		13	0.2%
16		4	0.1%
17		4	0.1%
18		2	0%
19		2	0%
20		2	0%
21		1	0%
23		1	0%
24		5	0.1%
30		1	0%
65		1	0%
Sysmiss		69	

### C169B: What is the source of electricity/energy used to power @@?

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6155 Invalid: 95 Minimum: 1 Maximum: 7 Mean: 3.51567831031682 Standard deviation: 2.22876127817123

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

b. What is the source of electricity/ energy used to power [ITEM]?

##### CATEGORIES

Value	Category	Cases	
1	National grid	1987	32.3%
2	Local mini-grid	819	13.3%
3	Electric Generator	564	9.2%
4	Solar	154	2.5%
5	Rechargeable battery	83	1.3%
6	Dry cell battery	2545	41.3%
7	Diesel	3	0%
8	LPG	0	0%
Sysmiss		95	

### C169C1: In a typical day, at what time of day do you use @@? (#1/8)

Data file: MTF\_HH\_SectionC3.dta

**Overview**

Valid: 6112 Invalid: 138 Minimum: 1 Maximum: 8 Mean: 4.24541884816754 Standard deviation:  
1.63599023120986  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

## CATEGORIES

Value	Category	Cases	
1	6am -9am	1079	17.7%
2	9am-12pm	138	2.3%
3	12pm-3pm	122	2%
4	3pm-6pm	145	2.4%
5	6pm-9pm	4199	68.7%
6	9pm-12am	368	6%
7	12am-3am	44	0.7%
8	3am-6am	17	0.3%
Sysmiss		138	

**C169C2: In a typical day, at what time of day do you use @@? (#2/8)**

Data file: MTF\_HH\_SectionC3.dta

**Overview**

Valid: 5155 Invalid: 1095 Minimum: 2 Maximum: 8 Mean: 5.43336566440349 Standard deviation:  
1.33792339816171  
Type: Discrete Decimal: 0 Width: 1 Range: 2 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

## CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	529	10.3%
3	12pm-3pm	123	2.4%
4	3pm-6pm	101	2%
5	6pm-9pm	510	9.9%
6	9pm-12am	3676	71.3%

7	12am-3am	156	3%
8	3am-6am	60	1.2%
Sysmiss		1095	

### C169C3: In a typical day, at what time of day do you use @@? (#3/8)

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 3112 Invalid: 3138 Minimum: 3 Maximum: 8 Mean: 6.28727506426735 Standard deviation: 1.40865398188364

Type: Discrete Decimal: 0 Width: 1 Range: 3 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	379	12.2%
4	3pm-6pm	68	2.2%
5	6pm-9pm	163	5.2%
6	9pm-12am	299	9.6%
7	12am-3am	2076	66.7%
8	3am-6am	127	4.1%
Sysmiss		3138	

### C169C4: In a typical day, at what time of day do you use @@? (#4/8)

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 2459 Invalid: 3791 Minimum: 4 Maximum: 8 Mean: 7.21390809272062 Standard deviation: 1.453858302547

Type: Discrete Decimal: 0 Width: 1 Range: 4 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	348	14.2%
5	6pm-9pm	62	2.5%
6	9pm-12am	117	4.8%
7	12am-3am	121	4.9%
8	3am-6am	1811	73.6%
Sysmiss		3791	

### C169C5: In a typical day, at what time of day do you use @@? (#5/8)

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 515 Invalid: 5735 Minimum: 5 Maximum: 8 Mean: 5.80388349514563 Standard deviation: 1.20568710168867

Type: Discrete Decimal: 0 Width: 1 Range: 5 - 8 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

##### CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	335	65%
6	9pm-12am	45	8.7%
7	12am-3am	36	7%
8	3am-6am	99	19.2%
Sysmiss		5735	

### C169C6: In a typical day, at what time of day do you use @@? (#6/8)

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 374 Invalid: 5876 Minimum: 6 Maximum: 8 Mean: 6.21390374331551 Standard deviation:

0.559796258740287

Type: Discrete Decimal: 0 Width: 1 Range: 6 - 8 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	321	85.8%
7	12am-3am	26	7%
8	3am-6am	27	7.2%
Sysmiss		5876	

**C169C7: In a typical day, at what time of day do you use @@? (#7/8)**

Data file: MTF\_HH\_SectionC3.dta

**Overview**

Valid: 330 Invalid: 5920 Minimum: 7 Maximum: 8 Mean: 7.07272727272727 Standard deviation: 0.260082670131191

Type: Discrete Decimal: 0 Width: 1 Range: 7 - 8 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	0	0%
7	12am-3am	306	92.7%
8	3am-6am	24	7.3%

Sysmiss		5920	
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### C169C8: In a typical day, at what time of day do you use @@? (#8/8)

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 300 Invalid: 5950 Minimum: 8 Maximum: 8 Mean: 8  
Type: Discrete Decimal: 0 Width: 1 Range: 8 - 8 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

c. In a typical day, at what time of day do you use [ITEM]?

##### CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	0	0%
7	12am-3am	0	0%
8	3am-6am	300	100%
Sysmiss		5950	

### C169D: How many hours does your household use @@ in a typical day during weekdays?

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6128 Invalid: 122 Minimum: 0 Maximum: 1440 Mean: 12.319680156658 Standard deviation:  
49.4319531635668  
Type: Continuous Decimal: 0 Width: 4 Range: 0 - 1440 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

d. How many hours does your household use [ITEM] in a typical day during weekdays?

### C169E: How many hours does your household use @@ in a typical day during weekends?

Data file: MTF\_HH\_SectionC3.dta

**Overview**

Valid: 6120 Invalid: 130 Minimum: 0 Maximum: 1224 Mean: 10.1447712418301 Standard deviation:  
 35.3955763721505  
 Type: Discrete Decimal: 0 Width: 4 Range: 0 - 1224 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

e. How many hours does your household use [ITEM] in a typical day during weekend?

## CATEGORIES

Value	Category	Cases	
0		30	0.5%
1		94	1.5%
2		161	2.6%
3		472	7.7%
4		466	7.6%
5		317	5.2%
6		1202	19.6%
7		131	2.1%
8		296	4.8%
9		304	5%
10		153	2.5%
11		253	4.1%
12		1729	28.3%
13		113	1.8%
14		24	0.4%
15		45	0.7%
16		29	0.5%
17		3	0%
18		49	0.8%
19		1	0%
20		15	0.2%
21		5	0.1%
22		11	0.2%
23		4	0.1%
24		165	2.7%
26		1	0%
27		1	0%
28		1	0%
30		11	0.2%

32		1	0%
33		1	0%
36		7	0.1%
39		1	0%
45		1	0%
48		4	0.1%
56		1	0%
60		4	0.1%
66		1	0%
72		3	0%
112		1	0%
770		1	0%
888		6	0.1%
900		1	0%
1224		1	0%
Sysmiss		130	

### PARENT\_KEY: Parent key

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6250 Invalid:  
Type: Continuous Width: 41 Range: - Format: character

### KEY: Key

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6250 Invalid:  
Type: Continuous Width: 61 Range: - Format: character

### SETOFC169\_RPT: Lighting and Appliances

Data file: MTF\_HH\_SectionC3.dta

#### Overview

Valid: 6250 Invalid:  
Type: Continuous Width: 57 Range: - Format: character

**G3\_POS:****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3418    Invalid: 14    Minimum: 1    Maximum: 4    Mean: 2.31509654768871  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 4    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		316	9.2%
2		2282	66.8%
3		247	7.2%
4		573	16.8%
Sysmiss		14	

**G3\_LBL:****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3432    Invalid:  
 Type: Discrete    Width: 11    Range: -    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
		6	0.2%
Flashlights		2282	66.5%
Lanterns		316	9.2%
Other		8	0.2%
Radio		573	16.7%
Task lights		247	7.2%

**G3\_RPT\_POS:****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3432    Invalid:    Minimum: 1    Maximum: 3    Mean: 1.15705128205128  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 3    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1		2909	84.8%
2		507	14.8%
3		16	0.5%

### G4: How many @@ does your household power with dry cell batteries?

Data file: MTF\_HH\_SectionG.dta

#### Overview

Valid: 3425 Invalid: 7 Minimum: 0 Maximum: 24 Mean: 1.99124087591241  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 24 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

G.4. How many of [ITEM] does your household power with dry cell batteries?

### CATEGORIES

Value	Category	Cases	
0		3	0.1%
1		1595	46.6%
2		990	28.9%
3		487	14.2%
4		205	6%
5		72	2.1%
6		39	1.1%
7		6	0.2%
8		9	0.3%
9		2	0.1%
10		1	0%
11		2	0.1%
12		9	0.3%
16		2	0.1%
18		1	0%
24		2	0.1%
Sysmiss		7	

**G5: How much did you pay for each @@ on average? If more than one, input average**

Data file: MTF\_HH\_SectionG.dta

**Overview**

Valid: 3425 Invalid: 7 Minimum: 0 Maximum: 600000000 Mean: 175850.775474453  
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 600000000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

G.5. How much did you pay for each [ITEM] on average?

**G6: In the last 12 months, how many months did you use @@?**

Data file: MTF\_HH\_SectionG.dta

**Overview**

Valid: 3425 Invalid: 7 Minimum: 0 Maximum: 31 Mean: 7.36875912408759  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 31 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

G.6. In the last 12 months, how many months did you use [ITEM]?

## CATEGORIES

Value	Category	Cases	
0		28	0.8%
1		384	11.2%
2		388	11.3%
3		387	11.3%
4		170	5%
5		149	4.4%
6		196	5.7%
7		28	0.8%
8		83	2.4%
9		35	1%
10		41	1.2%
11		56	1.6%
12		1441	42.1%
13		2	0.1%
14		4	0.1%
15		5	0.1%
18		4	0.1%

22		1	0%
24		20	0.6%
30		1	0%
31		2	0.1%
Sysmiss		7	

## G7: How many hours do you use @@ each day on a typical day?

Data file: MTF\_HH\_SectionG.dta

### Overview

Valid: 3406 Invalid: 26 Minimum: 0 Maximum: 24 Mean: 7.96007046388726  
 Type: Discrete Decimal: 0 Width: 2 Range: 0 - 24 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

G.7. How many hours do you use [ITEM] each day on a typical day?

#### CATEGORIES

Value	Category	Cases	
0		8	0.2%
1		72	2.1%
2		137	4%
3		268	7.9%
4		244	7.2%
5		189	5.5%
6		769	22.6%
7		56	1.6%
8		106	3.1%
9		124	3.6%
10		80	2.3%
11		203	6%
12		1055	31%
13		69	2%
14		4	0.1%
15		6	0.2%
16		1	0%
17		1	0%
18		3	0.1%
20		4	0.1%
24		7	0.2%

Sysmiss

26

**G8: How many dry cell batteries do you purchase each month for @@?****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3401 Invalid: 31 Minimum: 0 Maximum: 1400 Mean: 28.6171714201705  
 Type: Continuous Decimal: 0 Width: 4 Range: 0 - 1400 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

G.8. How many of dry cell batteries do you purchase each month for [ITEM]?

**G9: How much do you spend each month on dry cell batteries for @@?****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3425 Invalid: 7 Minimum: 0 Maximum: 32000000 Mean: 9955.87240875912  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 32000000 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

G.9. How much do you spend each month on dry cell batteries for [ITEM]?

**G10: Do you used @@ as a regular source of lighting or only as a back-up source when****Data file:** MTF\_HH\_SectionG.dta**Overview**

Valid: 3424 Invalid: 8 Minimum: 1 Maximum: 3 Mean: 1.49445093457944  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

G.10. Do you use [ITEM] as a regular source of lighting or only as a back-up source when the main source is not available?

CATEGORIES

Value	Category	Cases	
1	Regular source of lighting	2293	67%
2	Back-up source of lighting	569	16.6%
3	Not a source of lighting or no light available	562	16.4%

Sysmiss		8	
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### G11\_1: At what time of day do you use @@ each day? (#1/8)

Data file: MTF\_HH\_SectionG.dta

#### Overview

Valid: 3395 Invalid: 37 Minimum: 1 Maximum: 8 Mean: 4.2559646539028  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	650	19.1%
2	9am-12pm	36	1.1%
3	12pm-3pm	43	1.3%
4	3pm-6pm	48	1.4%
5	6pm-9pm	2405	70.8%
6	9pm-12am	133	3.9%
7	12am-3am	57	1.7%
8	3am-6am	23	0.7%
Sysmiss		37	

### G11\_2: At what time of day do you use @@ each day? (#2/8)

Data file: MTF\_HH\_SectionG.dta

#### Overview

Valid: 2886 Invalid: 546 Minimum: 2 Maximum: 8 Mean: 5.49099099099099  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	281	9.7%

3	12pm-3pm	46	1.6%
4	3pm-6pm	40	1.4%
5	6pm-9pm	313	10.8%
6	9pm-12am	2072	71.8%
7	12am-3am	82	2.8%
8	3am-6am	52	1.8%
Sysmiss		546	

### G11\_3: At what time of day do you use @@ each day? (#3/8)

Data file: MTF\_HH\_SectionG.dta

#### Overview

Valid: 1671 Invalid: 1761 Minimum: 3 Maximum: 8 Mean: 6.35906642728905  
 Type: Discrete Decimal: 0 Width: 1 Range: 3 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	203	12.1%
4	3pm-6pm	25	1.5%
5	6pm-9pm	64	3.8%
6	9pm-12am	114	6.8%
7	12am-3am	1207	72.2%
8	3am-6am	58	3.5%
Sysmiss		1761	

### G11\_4: At what time of day do you use @@ each day? (#4/8)

Data file: MTF\_HH\_SectionG.dta

#### Overview

Valid: 1349 Invalid: 2083 Minimum: 4 Maximum: 8 Mean: 7.34988880652335  
 Type: Discrete Decimal: 0 Width: 1 Range: 4 - 8 Format: Numeric

#### Questions and instructions

## LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

## CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	178	13.2%
5	6pm-9pm	22	1.6%
6	9pm-12am	37	2.7%
7	12am-3am	25	1.9%
8	3am-6am	1087	80.6%
Sysmiss		2083	

**G11\_5: At what time of day do you use @@ each day? (#5/8)**

Data file: MTF\_HH\_SectionG.dta

**Overview**

Valid: 199 Invalid: 3233 Minimum: 5 Maximum: 8 Mean: 5.25125628140704  
 Type: Discrete Decimal: 0 Width: 1 Range: 5 - 8 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

## CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	173	86.9%
6	9pm-12am	13	6.5%
7	12am-3am	2	1%
8	3am-6am	11	5.5%
Sysmiss		3233	

**G11\_6: At what time of day do you use @@ each day? (#6/8)**

Data file: MTF\_HH\_SectionG.dta

## Overview

Valid: 178 Invalid: 3254 Minimum: 6 Maximum: 7 Mean: 6.06179775280899  
 Type: Discrete Decimal: 0 Width: 1 Range: 6 - 7 Format: Numeric

## Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	167	93.8%
7	12am-3am	11	6.2%
8	3am-6am	0	0%
Sysmiss		3254	

### G11\_7: At what time of day do you use @@ each day? (#7/8)

Data file: MTF\_HH\_SectionG.dta

## Overview

Valid: 170 Invalid: 3262 Minimum: 7 Maximum: 8 Mean: 7.05882352941176  
 Type: Discrete Decimal: 0 Width: 1 Range: 7 - 8 Format: Numeric

## Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	0	0%
7	12am-3am	160	94.1%
8	3am-6am	10	5.9%

Sysmiss		3262	
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## G11\_8: At what time of day do you use @@ each day? (#8/8)

Data file: MTF\_HH\_SectionG.dta

### Overview

Valid: 158 Invalid: 3274 Minimum: 8 Maximum: 8 Mean: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 8 - 8 Format: Numeric

### Questions and instructions

LITERAL QUESTION

G.11. At what time of day do you use [LIGHT] each day?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	0	0%
7	12am-3am	0	0%
8	3am-6am	158	100%
Sysmiss		3274	

## PARENT\_KEY: Parent key

Data file: MTF\_HH\_SectionG.dta

### Overview

Valid: 3432 Invalid:  
 Type: Continuous Width: 41 Range: - Format: character

## KEY: Key

Data file: MTF\_HH\_SectionG.dta

### Overview

Valid: 3432 Invalid:  
 Type: Continuous Width: 60 Range: - Format: character

## SETOFG3\_RPT: Dry cells battery lighting sources

Data file: MTF\_HH\_SectionG.dta

### Overview

Valid: 3432 Invalid:

Type: Continuous Width: 57 Range: - Format: character

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**H2\_POS: Fuel Type****Data file:** MTF\_HH\_SectionH.dta**Overview**

Valid: 3877    Invalid:  
 Type: Discrete    Width: 1    Range: -    Format: character

**Questions and instructions**

LITERAL QUESTION

H.2. Fuel Type

CATEGORIES

Value	Category	Cases	
		24	0.6%
a		11	0.3%
b		170	4.4%
c		1741	44.9%
d		1855	47.8%
e		3	0.1%
f		1	0%
j		1	0%
k		3	0.1%
n		4	0.1%
r		38	1%
s		26	0.7%

**H2\_LBL: Fuel Type - label****Data file:** MTF\_HH\_SectionH.dta**Overview**

Valid: 3877    Invalid:  
 Type: Discrete    Width: 27    Range: -    Format: character

**Questions and instructions**

LITERAL QUESTION

H.2. Fuel Type - label

CATEGORIES

Value	Category	Cases	
		24	0.6%
Charcoal		1855	47.8%

Crop Residue/ Plant Biomass		1	0%
Electric		4	0.1%
Garbage/ plastic		38	1%
Kerosene		1	0%
LPG/ cooking gas		11	0.3%
Other		26	0.7%
Sawdust		3	0.1%
Solar		3	0.1%
Wood collected		1741	44.9%
Wood purchased		170	4.4%

**H2\_RPT\_POS:****Data file: MTF\_HH\_SectionH.dta****Overview**

Valid: 3877 Invalid: Minimum: 1 Maximum: 3

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1		3717	95.9%
2		156	4%
3		4	0.1%

**H4\_9\_1: In the last 12 months, what did your household use @@ for? (#1/6)****Data file: MTF\_HH\_SectionH.dta****Overview**

Valid: 3842 Invalid: 35 Minimum: 1 Maximum: 6

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

## CATEGORIES

Value	Category	Cases	
1	Lighting	39	1%

2	Cooking	3767	98%
3	Space Heating	2	0.1%
4	Boiling water	15	0.4%
5	Home-Based Income Activity	5	0.1%
6	other	14	0.4%
Sysmiss		35	

#### H4\_9\_2: In the last 12 months, what did your household use @@ for? (#2/6)

Data file: MTF\_HH\_SectionH.dta

##### Overview

Valid: 3085 Invalid: 792 Minimum: 2 Maximum: 5  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 5 Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

###### CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Cooking	11	0.4%
3	Space Heating	86	2.8%
4	Boiling water	2978	96.5%
5	Home-Based Income Activity	10	0.3%
6	other	0	0%
Sysmiss		792	

#### H4\_9\_3: In the last 12 months, what did your household use @@ for? (#3/6)

Data file: MTF\_HH\_SectionH.dta

##### Overview

Valid: 150 Invalid: 3727 Minimum: 3 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 3 - 6 Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

###### CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Cooking	0	0%
3	Space Heating	3	2%
4	Boiling water	90	60%
5	Home-Based Income Activity	52	34.7%
6	other	5	3.3%
Sysmiss		3727	

#### H4\_9\_4: In the last 12 months, what did your household use @@ for? (#4/6)

Data file: MTF\_HH\_SectionH.dta

##### Overview

Valid: 6 Invalid: 3871 Minimum: 4 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 4 - 6 Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

###### CATEGORIES

Value	Category	Cases	
1	Lighting	0	0%
2	Cooking	0	0%
3	Space Heating	0	0%
4	Boiling water	2	33.3%
5	Home-Based Income Activity	2	33.3%
6	other	2	33.3%
Sysmiss		3871	

#### H4\_9\_5: In the last 12 months, what did your household use @@ for? (#5/6)

Data file: MTF\_HH\_SectionH.dta

##### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 1 Range: - \* Format: Numeric

##### Questions and instructions

###### LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

## CATEGORIES

Value	Category
1	Lighting
2	Cooking
3	Space Heating
4	Boiling water
5	Home-Based Income Activity
6	other
Sysmiss	

**H4\_9\_6: In the last 12 months, what did your household use @@ for? (#6/6)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: Invalid: 3877 Maximum: \*

Type: Discrete Decimal: 0 Width: 1 Range: - \* Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for?

## CATEGORIES

Value	Category
1	Lighting
2	Cooking
3	Space Heating
4	Boiling water
5	Home-Based Income Activity
6	other
Sysmiss	

**H4\_9\_OTHER: In the last 12 months, what did your household use @@ for? (Other)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 3877 Invalid:

Type: Discrete Width: 51 Range: - Format: character

**Questions and instructions**

## LITERAL QUESTION

In the last 12 months, what did your household use [FUEL] for? Other

## CATEGORIES

Value	Category	Cases	
		3856	99.6%
Baking		1	0%
Baking Cookies		1	0%
Can't cook		1	0%
Don't cook		1	0%
Don't cook in his house		1	0%
I do not cook here.		1	0%
Ironing		2	0.1%
Ironing clothes		1	0%
N/A		2	0.1%
N/A		2	0.1%
Sysmiss		5	
No coal pot		1	0%
Pressing clothes		1	0%
To dry fresh fish for preservation and consumption.		1	0%

### H10\_1: In the last 12 months, in which months did you use @@@? (#1/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 3767 Invalid: 110 Minimum: 3 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	2	0.1%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%

9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	0	0%
111	Used all year	3749	99.5%
888	Don't know	16	0.4%
Sysmiss		110	

## H10\_2: In the last 12 months, in which months did you use @@? (#2/14)

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

#### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

## H10\_3: In the last 12 months, in which months did you use @@? (#3/14)

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

**H10\_4: In the last 12 months, in which months did you use @@? (#4/14)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category
1	January
2	February

3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_5: In the last 12 months, in which months did you use @@@? (#5/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*

Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

#### Questions and instructions

LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year

888	Don't know
Sysmiss	

### H10\_6: In the last 12 months, in which months did you use @@? (#6/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

#### Questions and instructions

LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_7: In the last 12 months, in which months did you use @@? (#7/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

#### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_8: In the last 12 months, in which months did you use @@? (#8/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

#### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May

6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_9: In the last 12 months, in which months did you use @@? (#9/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*

Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

##### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

**H10\_10: In the last 12 months, in which months did you use @@? (#10/14)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

**H10\_11: In the last 12 months, in which months did you use @@? (#11/14)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

**H10\_12: In the last 12 months, in which months did you use @@? (#12/14)**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid:   Invalid: 3877   Maximum: \*  
 Type: Discrete   Decimal: 0   Width: 3   Range: - \*   Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

## CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September

10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_13: In the last 12 months, in which months did you use @@? (#13/14)

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

##### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H10\_14: In the last 12 months, in which months did you use @@? (#14/14)

Data file: MTF\_HH\_SectionH.dta

## Overview

Valid: Invalid: 3877 Maximum: \*  
 Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.10. In the last 12 months, in which months did you use this [FUEL]?

### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

**H11\_1: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

## Overview

Valid: 3823 Invalid: 54 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

### CATEGORIES

Value	Category	Cases	
1	January	21	0.5%
2	February	4	0.1%

3	March	24	0.6%
4	April	335	8.8%
5	May	560	14.6%
6	June	577	15.1%
7	July	585	15.3%
8	August	367	9.6%
9	September	94	2.5%
10	October	5	0.1%
11	November	0	0%
12	December	2	0.1%
111	Used all year	431	11.3%
888	Don't know	818	21.4%
Sysmiss		54	

## H11\_2: In the last 12 months, in which month was the fuel scarce or significantly more expensive?

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 2471 Invalid: 1406 Minimum: 2 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 2 - 888 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	14	0.6%
3	March	3	0.1%
4	April	17	0.7%
5	May	215	8.7%
6	June	585	23.7%
7	July	599	24.2%
8	August	631	25.5%
9	September	345	14%
10	October	56	2.3%
11	November	3	0.1%
12	December	0	0%
111	Used all year	1	0%

888	Don't know	2	0.1%
Sysmiss		1406	

### H11\_3: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 2068 Invalid: 1809 Minimum: 3 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 3 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	10	0.5%
4	April	1	0%
5	May	8	0.4%
6	June	204	9.9%
7	July	572	27.7%
8	August	565	27.3%
9	September	543	26.3%
10	October	147	7.1%
11	November	10	0.5%
12	December	6	0.3%
111	Used all year	1	0%
888	Don't know	1	0%
Sysmiss		1809	

### H11\_4: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 1242 Invalid: 2635 Minimum: 4 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 4 - 111 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	6	0.5%
5	May	1	0.1%
6	June	7	0.6%
7	July	190	15.3%
8	August	528	42.5%
9	September	400	32.2%
10	October	94	7.6%
11	November	12	1%
12	December	2	0.2%
111	Used all year	2	0.2%
888	Don't know	0	0%
Sysmiss		2635	

**H11\_5: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 717 Invalid: 3160 Minimum: 5 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 5 - 12 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	4	0.6%

6	June	1	0.1%
7	July	7	1%
8	August	174	24.3%
9	September	412	57.5%
10	October	100	13.9%
11	November	15	2.1%
12	December	4	0.6%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3160	

### H11\_6: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 445 Invalid: 3432 Minimum: 6 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 6 - 888 Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

##### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	3	0.7%
7	July	1	0.2%
8	August	6	1.3%
9	September	155	34.8%
10	October	246	55.3%
11	November	20	4.5%
12	December	12	2.7%
111	Used all year	1	0.2%
888	Don't know	1	0.2%
Sysmiss		3432	

**H11\_7: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 113 Invalid: 3764 Minimum: 7 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 7 - 888 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	3	2.7%
8	August	1	0.9%
9	September	5	4.4%
10	October	86	76.1%
11	November	1	0.9%
12	December	16	14.2%
111	Used all year	0	0%
888	Don't know	1	0.9%
Sysmiss		3764	

**H11\_8: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 10 Invalid: 3867 Minimum: 8 Maximum: 111  
 Type: Discrete Decimal: 0 Width: 3 Range: 8 - 111 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	2	20%
9	September	1	10%
10	October	3	30%
11	November	3	30%
12	December	0	0%
111	Used all year	1	10%
888	Don't know	0	0%
Sysmiss		3867	

**H11\_9: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 5    Invalid: 3872    Minimum: 9    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 9 - 12    Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	2	40%

10	October	1	20%
11	November	1	20%
12	December	1	20%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3872	

### H11\_10: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 3    Invalid: 3874    Minimum: 10    Maximum: 12  
 Type: Discrete    Decimal: 0    Width: 3    Range: 10 - 12    Format: Numeric

#### Questions and instructions

#### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

#### CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	2	66.7%
11	November	0	0%
12	December	1	33.3%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3874	

### H11\_11: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 2 Invalid: 3875 Minimum: 11 Maximum: 11  
 Type: Discrete Decimal: 0 Width: 3 Range: 11 - 11 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%
3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	2	100%
12	December	0	0%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3875	

**H11\_12: In the last 12 months, in which month was the @@ scarce or significantly more ex**

Data file: MTF\_HH\_SectionH.dta

**Overview**

Valid: 2 Invalid: 3875 Minimum: 12 Maximum: 12  
 Type: Discrete Decimal: 0 Width: 3 Range: 12 - 12 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

## CATEGORIES

Value	Category	Cases	
1	January	0	0%
2	February	0	0%

3	March	0	0%
4	April	0	0%
5	May	0	0%
6	June	0	0%
7	July	0	0%
8	August	0	0%
9	September	0	0%
10	October	0	0%
11	November	0	0%
12	December	2	100%
111	Used all year	0	0%
888	Don't know	0	0%
Sysmiss		3875	

### H11\_13: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: Invalid: 3877 Maximum: \*

Type: Discrete Decimal: 0 Width: 3 Range: - \* Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

##### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year

888	Don't know
Sysmiss	

### H11\_14: In the last 12 months, in which month was the @@ scarce or significantly more ex

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid:   Invalid: 3877   Maximum: \*  
Type: Discrete   Decimal: 0   Width: 3   Range: - \*   Format: Numeric

#### Questions and instructions

##### LITERAL QUESTION

H.11. In the last 12 months, in which months was this [FUEL] scarce and significantly more expensive?

##### CATEGORIES

Value	Category
1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December
111	Used all year
888	Don't know
Sysmiss	

### H11B: In what units is @@ sold?

Data file: MTF\_HH\_SectionH.dta

#### Overview

Valid: 3811   Invalid: 66   Minimum: 1   Maximum: 14  
Type: Discrete   Decimal: 0   Width: 2   Range: 1 - 14   Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Kg	361	9.5%
2	Sack - large (charcoal)	805	21.1%
3	Big plastic bag (charcoal)	382	10%
4	Small plastic bag (Fill to the brim) (charcoal)	253	6.6%
5	Small plastic bag (Not fill to the brim) (charcoal)	102	2.7%
6	Small bundle (wood)	596	15.6%
7	Large bundle (wood)	1296	34%
8	Liter	3	0.1%
9	Gallon	9	0.2%
10	Beer bottle (800 ml)	1	0%
11	Schnapp bottle ( Normal bottle - 200 ml)	1	0%
12	Schnapp bottle (ninja bottle - 119.294 ml)	0	0%
13	Small mineral water bottle (0.5L)	1	0%
14	Big mineral water bottle (1.5L)	1	0%
15	kWh	0	0%
Sysmiss		66	

### H11C:

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 3877 Invalid:  
 Type: Discrete Width: 51 Range: - Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
		66	1.7%
Beer bottle (800 ml)		1	0%
Big mineral water bottle (1.5L)		1	0%
Big plastic bag (charcoal)		382	9.9%
Gallon		9	0.2%
Kg		361	9.3%
Large bundle (wood)		1296	33.4%

Liter		3	0.1%
Sack - large (charcoal)		805	20.8%
Schnapp bottle ( Normal bottle - 200 ml)		1	0%
Small bundle (wood)		596	15.4%
Small mineral water bottle (0.5L)		1	0%
Small plastic bag (Fill to the brim) (charcoal)		253	6.5%
Small plastic bag (Not fill to the brim) (charcoal)		102	2.6%

## H12: In the last 30 days, how many $\{H11c\}$ of @@ did your household use?

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 3811 Invalid: 66 Minimum: 0 Maximum: 4000000  
 Type: Continuous Decimal: 0 Width: 7 Range: 0 - 4000000 Format: Numeric

### Questions and instructions

LITERAL QUESTION

H.12. In the last 30 days, how much of this [FUEL] did your household use?

## H13: In the last 30 days, how many $\{H11c\}$ of @@ did your household purchase/collect?

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 1911 Invalid: 1966 Minimum: 0 Maximum: 55000000  
 Type: Continuous Decimal: 0 Width: 8 Range: 0 - 55000000 Format: Numeric

### Questions and instructions

LITERAL QUESTION

H.13. In the last 30 days, how much of this [fuel type] did you purchase/collect?

## H14: In the last 30 days, how much did you pay for the amount of @@ that you purchase

Data file: MTF\_HH\_SectionH.dta

### Overview

Valid: 1920 Invalid: 1957 Minimum: 0 Maximum: 2400000000  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 2400000000 Format: Numeric

### Questions and instructions

LITERAL QUESTION

H.14. In the last 30 days, how much did you pay for the amount of [FUEL] that you purchased?

---

**PARENT\_KEY: Parent key**

**Data file: MTF\_HH\_SectionH.dta**

**Overview**

Valid: 3877 Invalid:

Type: Continuous Width: 41 Range: - Format: character

---

**KEY: Key**

**Data file: MTF\_HH\_SectionH.dta**

**Overview**

Valid: 3877 Invalid:

Type: Continuous Width: 58 Range: - Format: character

---

**SETOFH2\_RPT: Household Fuel Consumption**

**Data file: MTF\_HH\_SectionH.dta**

**Overview**

Valid: 3877 Invalid:

Type: Continuous Width: 55 Range: - Format: character

---

**M\_POS: Item****Data file:** MTF\_HH\_SectionM.dta**Overview**

Valid: 196 Invalid: 5 Minimum: 1 Maximum: 14  
 Type: Discrete Decimal: 0 Width: 2 Range: 1 - 14 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

Item

CATEGORIES

Value	Category	Cases	
1		90	45.9%
2		94	48%
3		5	2.6%
4		1	0.5%
7		1	0.5%
9		3	1.5%
14		2	1%
Sysmiss		5	

**M\_LBL: Item - label****Data file:** MTF\_HH\_SectionM.dta**Overview**

Valid: 201 Invalid:  
 Type: Discrete Width: 32 Range: - Format: character

**Questions and instructions**

LITERAL QUESTION

Item - label

CATEGORIES

Value	Category	Cases	
		5	2.5%
Domestic water pump		1	0.5%
Motor boat		5	2.5%
Motorcycle		94	46.8%
Other specify		2	1%
Rice contended machine		3	1.5%

Two-wheel tractor		1	0.5%
Vehicle (Car, pickup truck, etc)		90	44.8%

**M\_RPT\_POS:****Data file:** MTF\_HH\_SectionM.dta**Overview**

Valid: 201 Invalid: Minimum: 1 Maximum: 3  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

Item

CATEGORIES

Value	Category	Cases	
1		192	95.5%
2		8	4%
3		1	0.5%

**MA: How many @@ in working condition do you own?****Data file:** MTF\_HH\_SectionM.dta**Overview**

Valid: 196 Invalid: 5 Minimum: 1 Maximum: 7  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

LITERAL QUESTION

a. How many [ITEM] in working condition does your household own?

CATEGORIES

Value	Category	Cases	
1		161	82.1%
2		27	13.8%
3		4	2%
5		2	1%
6		1	0.5%
7		1	0.5%
Sysmiss		5	

**MB: What is the average capacity of the @@ your household owns?**

Data file: MTF\_HH\_SectionM.dta

**Overview**

Valid: 189 Invalid: 12 Minimum: 0 Maximum: 76000  
 Type: Discrete Decimal: 0 Width: 5 Range: 0 - 76000 Format: Numeric

**Questions and instructions**

## LITERAL QUESTION

b. What is the average capacity of [ITEM] your household own?

## CATEGORIES

Value	Category	Cases	
0		3	1.6%
1		16	8.5%
2		5	2.6%
3		6	3.2%
4		3	1.6%
5		5	2.6%
6		6	3.2%
8		11	5.8%
9		29	15.3%
10		1	0.5%
11		1	0.5%
12		3	1.6%
14		8	4.2%
15		7	3.7%
16		3	1.6%
30		2	1.1%
40		3	1.6%
50		2	1.1%
70		1	0.5%
75		1	0.5%
80		3	1.6%
100		3	1.6%
109		2	1.1%
111		1	0.5%
112		1	0.5%
125		4	2.1%

126		1	0.5%
150		2	1.1%
160		2	1.1%
200		1	0.5%
220		1	0.5%
222		1	0.5%
225		1	0.5%
240		1	0.5%
250		1	0.5%
270		1	0.5%
280		1	0.5%
300		1	0.5%
475		1	0.5%
500		1	0.5%
660		1	0.5%
888		38	20.1%
2250		2	1.1%
3250		1	0.5%
76000		1	0.5%
Sysmiss		12	

### MC: What is the source of energy used to power your @@?

Data file: MTF\_HH\_SectionM.dta

#### Overview

Valid: 194 Invalid: 7 Minimum: 1 Maximum: 2  
 Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

c. What is the source of energy used to power [ITEM]?

CATEGORIES

Value	Category	Cases	
1	Gasoline	184	94.8%
2	Diesel	10	5.2%
3	LPG	0	0%
4	Kerosene	0	0%
5	Biomass	0	0%
6	Biogas	0	0%

7	other	0	0%
Sysmiss		7	

### MC\_OTHER: What is the source of energy used to power your @@? (Other)

Data file: MTF\_HH\_SectionM.dta

#### Overview

Valid: 201 Invalid:  
Type: Discrete Width: 36 Range: - Format: character

#### Questions and instructions

LITERAL QUESTION

c. What is the source of energy used to power [ITEM]? Other

CATEGORIES

Value	Category	Cases	
		199	99%
None		1	0.5%
None. Because the other is a bicycle		1	0.5%

### MD1: In a typical day, at what time of day do you use your @@? (#1/8)

Data file: MTF\_HH\_SectionM.dta

#### Overview

Valid: 192 Invalid: 9 Minimum: 1 Maximum: 8  
Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

#### Questions and instructions

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	143	74.5%
2	9am-12pm	36	18.8%
3	12pm-3pm	1	0.5%
4	3pm-6pm	2	1%
5	6pm-9pm	6	3.1%
6	9pm-12am	3	1.6%
7	12am-3am	0	0%

8	3am-6am	1	0.5%
Sysmiss		9	

## MD2: In a typical day, at what time of day do you use your @@? (#2/8)

Data file: MTF\_HH\_SectionM.dta

### Overview

Valid: 173 Invalid: 28 Minimum: 2 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 2 - 8 Format: Numeric

### Questions and instructions

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	104	60.1%
3	12pm-3pm	28	16.2%
4	3pm-6pm	11	6.4%
5	6pm-9pm	16	9.2%
6	9pm-12am	6	3.5%
7	12am-3am	1	0.6%
8	3am-6am	7	4%
Sysmiss		28	

## MD3: In a typical day, at what time of day do you use your @@? (#3/8)

Data file: MTF\_HH\_SectionM.dta

### Overview

Valid: 121 Invalid: 80 Minimum: 3 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 3 - 8 Format: Numeric

### Questions and instructions

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%

2	9am-12pm	0	0%
3	12pm-3pm	91	75.2%
4	3pm-6pm	17	14%
5	6pm-9pm	8	6.6%
6	9pm-12am	1	0.8%
7	12am-3am	3	2.5%
8	3am-6am	1	0.8%
Sysmiss		80	

#### MD4: In a typical day, at what time of day do you use your @@? (#4/8)

Data file: MTF\_HH\_SectionM.dta

##### Overview

Valid: 105 Invalid: 96 Minimum: 4 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 4 - 8 Format: Numeric

##### Questions and instructions

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	89	84.8%
5	6pm-9pm	10	9.5%
6	9pm-12am	0	0%
7	12am-3am	1	1%
8	3am-6am	5	4.8%
Sysmiss		96	

#### MD5: In a typical day, at what time of day do you use your @@? (#5/8)

Data file: MTF\_HH\_SectionM.dta

##### Overview

Valid: 63 Invalid: 138 Minimum: 5 Maximum: 8  
 Type: Discrete Decimal: 0 Width: 1 Range: 5 - 8 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

### CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	61	96.8%
6	9pm-12am	1	1.6%
7	12am-3am	0	0%
8	3am-6am	1	1.6%
Sysmiss		138	

## MD6: In a typical day, at what time of day do you use your @@? (#6/8)

Data file: MTF\_HH\_SectionM.dta

### Overview

Valid: 7 Invalid: 194 Minimum: 6 Maximum: 6  
 Type: Discrete Decimal: 0 Width: 1 Range: 6 - 6 Format: Numeric

## Questions and instructions

### LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

### CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	7	100%
7	12am-3am	0	0%
8	3am-6am	0	0%
Sysmiss		194	

**MD7: In a typical day, at what time of day do you use your @@? (#7/8)****Data file: MTF\_HH\_SectionM.dta****Overview**

Valid: 1    Invalid: 200    Minimum: 7    Maximum: 7  
 Type: Discrete    Decimal: 0    Width: 1    Range: 7 - 7    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%
6	9pm-12am	0	0%
7	12am-3am	1	100%
8	3am-6am	0	0%
Sysmiss		200	

**MD8: In a typical day, at what time of day do you use your @@? (#8/8)****Data file: MTF\_HH\_SectionM.dta****Overview**

Valid: 1    Invalid: 200    Minimum: 8    Maximum: 8  
 Type: Discrete    Decimal: 0    Width: 1    Range: 8 - 8    Format: Numeric

**Questions and instructions**

LITERAL QUESTION

d. In a typical day, at what time of day do you [ITEM]?

CATEGORIES

Value	Category	Cases	
1	6am -9am	0	0%
2	9am-12pm	0	0%
3	12pm-3pm	0	0%
4	3pm-6pm	0	0%
5	6pm-9pm	0	0%

6	9pm-12am	0	0%
7	12am-3am	0	0%
8	3am-6am	1	100%
Sysmiss		200	

## ME: How many hours does your household use your @@ in a typical day during the weekd

Data file: MTF\_HH\_SectionM.dta

### Overview

Valid: 181 Invalid: 20 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

e. How many hours does your household use [ITEM] in a typical day during weekdays?

#### CATEGORIES

Value	Category	Cases	
1		1	0.6%
2		3	1.7%
3		11	6.1%
4		1	0.6%
5		9	5%
6		23	12.7%
7		7	3.9%
8		3	1.7%
9		13	7.2%
10		4	2.2%
11		6	3.3%
12		26	14.4%
13		2	1.1%
14		3	1.7%
15		27	14.9%
16		4	2.2%
18		3	1.7%
19		1	0.6%
20		4	2.2%
21		1	0.6%
24		1	0.6%
25		1	0.6%

34		1	0.6%
36		3	1.7%
37		1	0.6%
40		1	0.6%
42		3	1.7%
44		2	1.1%
888		16	8.8%
Sysmiss		20	

## MF: How many hours does your household use your @@ in a typical day during the weeke

Data file: MTF\_HH\_SectionM.dta

### Overview

Valid: 181 Invalid: 20 Minimum: 1 Maximum: 888  
 Type: Discrete Decimal: 0 Width: 3 Range: 1 - 888 Format: Numeric

### Questions and instructions

#### LITERAL QUESTION

f. How many hours does your household use [ITEM] in a typical day during weekend?

#### CATEGORIES

Value	Category	Cases	
1		1	0.6%
2		5	2.8%
3		6	3.3%
4		1	0.6%
5		13	7.2%
6		24	13.3%
7		7	3.9%
8		7	3.9%
9		15	8.3%
10		7	3.9%
11		6	3.3%
12		25	13.8%
13		2	1.1%
14		4	2.2%
15		25	13.8%
16		6	3.3%
17		1	0.6%
18		3	1.7%

19		1	0.6%
20		1	0.6%
24		2	1.1%
36		1	0.6%
45		1	0.6%
888		17	9.4%
Sysmiss		20	

### **PARENT\_KEY: Parent key**

**Data file: MTF\_HH\_SectionM.dta**

#### **Overview**

Valid: 201    Invalid:  
 Type: Continuous    Width: 41    Range: -    Format: character

### **KEY: Key**

**Data file: MTF\_HH\_SectionM.dta**

#### **Overview**

Valid: 201    Invalid:  
 Type: Continuous    Width: 57    Range: -    Format: character

### **SETOFM\_RPT: Infrastructure and Services**

**Data file: MTF\_HH\_SectionM.dta**

#### **Overview**

Valid: 201    Invalid:  
 Type: Continuous    Width: 54    Range: -    Format: character

# Documentation

## Questionnaires

### Energy Survey, Household Questionnaire Medium Version

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Title Energy Survey, Household Questionnaire Medium Version  
Author(s) The World Bank Sustainable Energy for ALL  
Country Liberia  
Language English  
Filename mtf\_questionnaire\_liberia.pdf

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## Reports

### Beyond Connections, Energy Access Diagnostic Report Based on the Multi-Tier Framework

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Title Beyond Connections, Energy Access Diagnostic Report Based on the Multi-Tier Framework  
Author(s) Energy Sector Management Assistance Program (ESMAP), The World Bank  
Date 2020-12  
Country Liberia  
Language English  
Filename mtf\_energy\_access\_country\_diagnostics\_report\_liberia.pdf

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## Technical documents

### Sampling Strategy for Liberia

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Title Sampling Strategy for Liberia  
Country Liberia  
Language English  
Filename mtf\_sampling\_strategy\_liberia.pdf

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