

## EXAMPLE Uganda

### Household Questionnaire on improved cooking stoves

Interviewer Name	
Date	

District	
Subcounty	
Parish	
Village	
Household ID	

**Own Observation:**

**Main Interviewee:** (Please tick one)

wife                       husband

*(as far as possible, the interview should be done with the responsible woman of the household)*

**Household category:** *Observation on the house where the family is living in*

**Walls:**             mud and pole                       stabilised bricks  
                           unburned bricks with mud             other (specify): \_\_\_\_\_

**Roof:**             thatched roof                       iron sheets:

**Property:** *Observation on the cleanness and housekeeping of the courtyard and kitchen:*

nicely arranged and cleanly swept                       things lying around  
 rubbish all over the place, structure of the kitchen almost collapsing

**Ask the respondent:**

1.) Who is the head of the household?

wife                       husband

2.) What is his or her name? \_\_\_\_\_

3.) How many people are usually living and eating together with you in this compound?

Number of adults: \_\_\_\_\_                      Number of children up to 15 years: \_\_\_\_\_

Number of youth (between 16 and 23 years): \_\_\_\_\_

4.) Are you living in your own house or do you rent it?

own house                       rented house

5.) Is somebody in your family a trained stove builder?

yes                       no

↙ 5.a) If yes: Who is it?

wife                       husband

other household member: \_\_\_\_\_

**Stove information – general part for all households**

6.) Where do you usually cook?

- inside the house                       in a separate kitchen                       outside

6.a) Do you allow animals to enter?

- yes     no

*Please ask the lady to show you the stoves she has in order to fill out the table for questions 6. to 11. You may fill out the tables at the end of the questionnaire with your observations on the stove conditions at the same time. Or you take your time at the end of the interview and take note of your observations on the improved stoves.*

7.) What type of stoves do you have in your household?

8.) What number of each type of stove is present?

9.) When did you get the stove?

10.) Was the stove bought or not?

11.) At what price (in cash or in kind)?

12.) If the stove was not paid for, what is the reason for this?

7.)Type of stove	8.) Amount	9.) Year + Month	10.) Bought	11.) Price or Amount of Goods spend	12.) Reason why it was for free
Rocket Lorena with shelf (RL 1)			<input type="checkbox"/> yes <input type="checkbox"/> no		
Rocket Lorena with bypass air inlet (RL 2)			<input type="checkbox"/> yes <input type="checkbox"/> no		
Shielded Fire with shelf (SF 1)			<input type="checkbox"/> yes <input type="checkbox"/> no		
Shielded Fire with bypass air inlet (SF 2)			<input type="checkbox"/> yes <input type="checkbox"/> no		
Kerosene stove			<input type="checkbox"/> yes <input type="checkbox"/> no		
Metal charcoal stove (without liner)			<input type="checkbox"/> yes <input type="checkbox"/> no		
Charcoal stove with liner (Jiko)			<input type="checkbox"/> yes <input type="checkbox"/> no		
3 stone fire		-	-	-	-
Demolished ICS: (specify):		Lifespan:	<input type="checkbox"/> yes <input type="checkbox"/> no		Reason why it was demolished:
Others (specify):					

**If there are improved stoves go to question number 29!**

**If there are NO IMPROVED stoves in the household ask the following questions:**

**Stove usage**

13.) Who is the main cook?

wife  other (specify): \_\_\_\_\_

14.) Which stove(s) do you use **every day** for cooking meals: (several answers possible)

three stone fire  Metal charcoal stove  Ceramic Jiko  
 three stone fire  other: \_\_\_\_\_

15.) How often do you usually cook a meal per day?

one time  twice per day  three times per day

16.) Do you also warm up meals?

yes  no

35.a) If yes: When do you warm up a meal?

in the morning  at lunch  in the evening

17.a) How long does it take to cook dry beans with the improved stove? \_\_\_\_\_ hours

18.) If the woman is cooking during the interview, please observe her cooking practices (several answers possible). If the woman is not cooking, go to the next question:

18.a) use dry firewood	<input type="checkbox"/> yes <input type="checkbox"/> no
18.b) smoke in the kitchen	<input type="checkbox"/> yes <input type="checkbox"/> no
18.c) use split firewood	<input type="checkbox"/> yes <input type="checkbox"/> no
18.d) covering the pot	<input type="checkbox"/> yes <input type="checkbox"/> no
18.e) use few and small sticks*	<input type="checkbox"/> yes <input type="checkbox"/> no
18.f) air inlet full of ash*	<input type="checkbox"/> yes <input type="checkbox"/> no
18.g) saucepan inside the skirt*	<input type="checkbox"/> yes <input type="checkbox"/> no

\* applicable only for the improved stove

**Fuel wood**

19.) Which of the following fuel do you use? Please read the categories to the respondent! (several answers possible)

firewood  small sticks  charcoal  
 coffee prunes  maize cobs  maize/ sorghum stems  
 other agricultural residues (specify) \_\_\_\_\_  
 other (specify): \_\_\_\_\_

20.) If fire wood is used: Do you buy it, collect it or both?

collect firewood  buy fire wood  collect and buy fire wood

21.a) If firewood is collected and bought: How is the relation between the firewood collected and the firewood bought?

- more fire wood collected  half-half  more firewood bought

**If fire wood is collected:**

22.) Where do you get your firewood from? (several answers possible)

- home woodlot  forest  bush land  neighbours woodlot  
 other (specify): \_\_\_\_\_

**If fire wood is collected, put 10 stones in front of the woman and explain to her, that this corresponds to the quantity of fire wood she had to collect per week when still using only the 3 stone fire. Ask her then to show you the quantity of stones corresponding to the quantity of fire wood she has to collect now, with an improved stove:**

23.) How many stones (out of 10) represent the quantity of fire wood you are collecting now, using an improved stove? \_\_\_\_\_ stones

24.) Please describe the availability of fuel wood in your community? (one answer for each category possible):

24.a) How far is the fuel wood in general from peoples home?

24.b) How is the price for fuel wood in this community?

24.c) How do you find the quantity of fuel wood available in this community?

24.a)	<input type="checkbox"/> Short distance	<input type="checkbox"/> Medium distance	<input type="checkbox"/> Long distance
24.b)	<input type="checkbox"/> Low price	<input type="checkbox"/> Medium price	<input type="checkbox"/> High price <input type="checkbox"/> Don't know price
24.c)	<input type="checkbox"/> Plenty of firewood	<input type="checkbox"/> Just enough firewood	<input type="checkbox"/> Firewood is scarce

**If fire wood is bought, ask the following questions:**

25.a) How much money do you spend per week **with the improved stove**? \_\_\_\_\_ USh

25.b) How much money did you spend per week **without an improved stove**? \_\_\_\_\_ USh

**Please ask the following questions to everybody:**

26.) Do you practice fire wood management?

- yes  no (why not?) \_\_\_\_\_

26.a) If yes: What methods of fire wood management are you using?

- drying the wood  storage  split the fire wood into small pices  
 cutting the wood  other (specify): \_\_\_\_\_

27.) Do you know about improved stoves?

- yes  no

27.a) If yes: Why don't you use one?

- no interest  no money  Don't know where to find  
 no kitchen  other (specify): \_\_\_\_\_

**27.b)** Do you intend to purchase an improved stove in the future?

yes

no

not sure

↙ **27.c) If yes:** Which type?

Rocket Lorena

Shielded fire

other (specify): \_\_\_\_\_

**28.)** How would you describe an ideal cooking stove? \_\_\_\_\_

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***The interview ends here for the households without any ICS.***

***Please, thank the respondent for her answers!***

Stove information – specific part for ICS households

If there are (or were) improved stoves in the household, continue with the following questions:

29.) How did you first hear about improved stoves?

\_\_\_\_\_

30.) What was your motivation to get an improved stove?

- NGO introduced it and told about benefits
- saw at the neighbour and wanted one
- Advertisement
- others (specify): \_\_\_\_\_

31.) Who prepared the raw material for the improved stove(s)?

- Rocket Lorena (with shelf):  Owner  stove builder  both together  other: \_\_\_\_\_
- Rocket Lorena (bypass air):  Owner  stove builder  both together  other: \_\_\_\_\_
- Shielded Fire (with shelf):  Owner  stove builder  both together  other: \_\_\_\_\_
- Shielded Fire (bypass air):  Owner  stove builder  both together  other: \_\_\_\_\_

32.) Who built the stove(s)?

- Rocket Lorena (with shelf):  Owner  stove builder  both together  other: \_\_\_\_\_
- Rocket Lorena (bypass air):  Owner  stove builder  both together  other: \_\_\_\_\_
- Shielded Fire (with shelf):  Owner  stove builder  both together  other: \_\_\_\_\_
- Shielded Fire (bypass air):  Owner  stove builder  both together  other: \_\_\_\_\_

Stove maintenance and replacement

33.) Do you maintain your improved stove?

- yes
- no (if no, go to question 19.b)



33.a) If yes: How do you maintain it? (several answers possible)

- smear the stove body with soil
- cover stove if outside
- remove ash from the stove
- unblock the chimney
- other (specify): \_\_\_\_\_

33.b) If no: What could be the reasons for not maintaining your stove? (several answers possible)

- no interest
- no time
- don't know how to do it
- stove functions satisfactory
- other (specify): \_\_\_\_\_

34.) Has your improved stove ever been repaired?

- yes
- no (if no, go to question 21)



34.a) If yes: How many times has the stove been repaired? \_\_\_\_\_ times

34.b) What type of repair has been done? Please read the categories to the respondent! (several answers possible)

- repair of cracks in the body
- repair of the door

- repair of chimney
- repair of inter-saucepan cavity duct
- replacement of firewood shelf
- repair of pot-rests
- repair of combustion chamber
- other (specify): \_\_\_\_\_

**34.c) Who repaired the stove?**

- Owner (wife, husband)
- family member who is a stove builder
- stove builder
- family member
- other (specify): \_\_\_\_\_

**34.d) Did you pay for the repair?**

- Yes
- No (go to 21)

**34.e) If yes, how much:**

\_\_\_\_\_ in cash or \_\_\_\_\_ in kind

**35.) If no: Why has the stove never been repaired?**

- stove is still in a good condition
- no money
- no time
- don't know, how to repair it
- stove functions satisfactory
- other (specify): \_\_\_\_\_

**36.) Has your improved stove ever been replaced?**

- yes
- no (if no, go to question 27)

**36.a) If yes: Why was it replaced?**

- old one got broken
- wanted to have the new model of ICS (bypass air inlet)
- other (specify): \_\_\_\_\_

**36.) What was the lifetime of the stove?**

Rocket Lorena: \_\_\_\_\_ years

Shielded Fire: \_\_\_\_\_ years

**37.) Who replaced it?**

- Owner
- family member who is a stove builder
- stove builder
- family member
- other (specify): \_\_\_\_\_

**38.) If the stove was replaced by a stove builder, did you pay him/her?**

- yes
- no (why not?) \_\_\_\_\_

**38.a) If yes: How much did you pay for the replacement?**

in cash \_\_\_\_\_ US\$ or in kind (specify) \_\_\_\_\_

**39.) Did you replace it with the same model?**

- yes
- no (specify new model) \_\_\_\_\_

**If the stove was not replaced ask the following question:**

**40.) Do you know any stove builder who could replace it when it is broken?**

- yes
- no

**Stove usage**

41.) Who is the main cook?

- wife                       other (specify): \_\_\_\_\_

42.) Are you actually using the improved stove(s)?

- |  |  |
|--|--|
| Rocket Lorena (with shelf)                               | Rocket Lorena (air bypass)                               |
| <input type="checkbox"/> yes <input type="checkbox"/> no | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Shielded Fire (with Shelf)                               | Shielded Fire (air bypass)                               |
| <input type="checkbox"/> yes <input type="checkbox"/> no | <input type="checkbox"/> yes <input type="checkbox"/> no |

42.a) Do you usually use the second saucepan hole of the Rocket Lorena?

- yes                       no (go to 29.c)

42.b) **If yes:** What do you usually cook on the second pot hole? \_\_\_\_\_

42.c) **If no:** Why not? \_\_\_\_\_

**If the respondent does not use any improved stove ask the following question:**

43.) Why do you not use the stove? (several answers possible)

- |  |  |
|--|--|
| <input type="checkbox"/> saucepan does not fit             | <input type="checkbox"/> saucepans get damaged   |
| <input type="checkbox"/> doesn't fit to cooking operations | <input type="checkbox"/> prefer three stone fire |
| <input type="checkbox"/> other (specify): _____            |  |

**Own observation:**

44.) Please tick according to your own observation, whether the stove (s) has been recently used or not. (ash inside etc.)

- |  |  |
|--|--|
| Rocket Lorena (with shelf)                               | Rocket Lorena (air bypass)                               |
| <input type="checkbox"/> yes <input type="checkbox"/> no | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Shielded Fire (with Shelf)                               | Shielded Fire (air bypass)                               |
| <input type="checkbox"/> yes <input type="checkbox"/> no | <input type="checkbox"/> yes <input type="checkbox"/> no |

Use of second saucepan hole of the Rocket Lorena

- yes                       no

45.) If the woman is cooking during the interview, please observe her cooking practices (several answers possible). If the woman is not cooking, go to the next question:

45.a) use dry firewood	<input type="checkbox"/> yes <input type="checkbox"/> no
45.b) smoke in the kitchen	<input type="checkbox"/> yes <input type="checkbox"/> no
45.c) use split firewood	<input type="checkbox"/> yes <input type="checkbox"/> no
45.d) covering the pot	<input type="checkbox"/> yes <input type="checkbox"/> no
45.e) use few and small sticks*	<input type="checkbox"/> yes <input type="checkbox"/> no
45.f) air inlet full of ash*	<input type="checkbox"/> yes <input type="checkbox"/> no
45.g) saucepan inside the skirt*	<input type="checkbox"/> yes <input type="checkbox"/> no

\* applicable only for the improved stove



46.) Which stove(s) do you use **every day** for cooking meals: (several answers possible)

- Rocket Lorena (with shelf)       Rocket Lorena (with bypass air)       Shielded fire (with shelf)  
 Shielded fire (with bypass air)       Metal charcoal stove       Ceramic Jiko  
 three stone fire       other: \_\_\_\_\_

**If the improved stove is not used every day, ask the following question:**

47.a) Why do you not use the improved stove for every day cooking?

- not suitable for the saucepan       too slow       don't know how to operate it  
 stove is in a bad condition       other (specify): \_\_\_\_\_

**If there is an ICS used together with a 3-stone fire for every day cooking, ask the following question:**

47.b) For what purpose do you use the 3-stone fire? \_\_\_\_\_

48.) How often do you usually cook a meal per day?

- one time       twice per day       three times per day

49.) Do you also warm up meals?

- yes       no

49.a) If yes: When do you warm up a meal?

- in the morning       at lunch       in the evening

50.) Do you know how to use the improved stove **properly** (in order to save energy)?

- yes       no

50.a) If yes: What is the proper energy saving way of using the stove?

- use of dry firewood       use of split firewood  
 use of the corresponding saucepan       pre-soaking hard food  
 covering the pot while cooking       other (specify): \_\_\_\_\_

51.a) How long does it take to cook dry beans with the improved stove? \_\_\_\_\_ hours

51.b.) How long did it take to cook dry beans with your old stove? \_\_\_\_\_ hours

52.) When you save time for cooking with an ICS, what are you doing with that extra time? (several answers possible)

- reproductive activities       agricultural work       generate income  
 leisure time       other (specify): \_\_\_\_\_

### Fuel wood

53.) Which of the following fuel do you use? Please read the categories to the respondent! (several answers possible)

- firewood       small sticks       charcoal  
 coffee prunes       maize cobs       maize/ sorghum stems  
 other agricultural residues (specify) \_\_\_\_\_  
 other (specify): \_\_\_\_\_

54.) **If fire wood is used:** Do you buy it, collect it or both?

- collect firewood       buy fire wood       collect and buy fire wood

54.a) **If firewood is collected and bought:** How is the relation between the firewood collected and the firewood bought?

- more fire wood collected     half-half       more firewood bought

**If fire wood is collected:**

41.) Where do you get your firewood from? (several answers possible)

- home woodlot       forest       bush land       neighbours woodlot  
 other (specify): \_\_\_\_\_

**If fire wood is collected, put 10 stones in front of the woman and explain to her, that this corresponds to the quantity of fire wood she had to collect per week when still using only the 3 stone fire. Ask her then to show you the quantity of stones corresponding to the quantity of fire wood she has to collect now, with an improved stove:**

42.) How many stones (out of 10) represent the quantity of fire wood you are collecting now, using an improved stove? \_\_\_\_\_ stones

43.) Please describe the availability of fuel wood in your community? (one answer for each category possible):

43.a) How far is the fuel wood in general from peoples home?

43.b) How is the price for fuel wood in this community?

43.c) How do you find the quantity of fuel wood available in this community?

43.a)	<input type="checkbox"/> Short distance	<input type="checkbox"/> Medium distance	<input type="checkbox"/> Long distance
43.b)	<input type="checkbox"/> Low price	<input type="checkbox"/> Medium price	<input type="checkbox"/> High price <input type="checkbox"/> Don't know price
43.c)	<input type="checkbox"/> Plenty of firewood	<input type="checkbox"/> Just enough firewood	<input type="checkbox"/> Firewood is scarce

**If fire wood is bought, ask the following questions:**

44.a) How much money do you spend per week **with the improved stove**? \_\_\_\_\_ US\$

44.b) How much money did you spend per week **without an improved stove**? \_\_\_\_\_ US\$

**Please ask the following questions to everybody:**

45.) Do you practice fire wood management?

- yes       no (why not?) \_\_\_\_\_

45.a) **If yes:** What methods of fire wood management are you using?

- drying the wood     storage       split the fire wood into small pices  
 cutting the wood     other (specify): \_\_\_\_\_

General perceptions

46.) What advantages do you see in using an improved stove? (several answers possible)

- Fuel saving                       cooks fast                       Reduced smoke
- Clean kitchen                       less burns, accidents                       less respiratory diseases
- less eye diseases                       more comfort                       better taste of food
- Saves money                       others (specify): \_\_\_\_\_

47.) What is the most important advantage for you about an improved stove? (one answer only)

- Fuel saving                       cooks fast                       Reduced smoke
- Clean kitchen                       less burns, accidents                       less respiratory diseases
- less eye diseases                       more comfort                       better taste of food
- Saves money                       others (specify): \_\_\_\_\_

48.) Do you see any disadvantage of the improved stove?

- yes                       no (if no, jump to question 49)

→ 48.a) If yes: Which are the disadvantages? (Several answers possible).

- not possible to sit around the fire     takes more time to cook     can't cook certain meals
- can't cook with big saucepans     can't use wet wood                       needs maintenance
- other (specify): \_\_\_\_\_

49.) If you think/dream of an ideal stove how would you describe it?

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50.) This is the end of my questioning. Do you have any remarks that you wish to tell us?

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***The interview ends here.  
Please, thank the respondent for his answers!***

Own observation of enumerator

The following observations have to be done by the enumerator. When starting the interview, you ask the lady to show you the stoves she has in order to fill out the table for questions 7. to 12. You may fill out the tables below with your observations on the stove conditions at the same time. Or you take your time at the end of the interview and take note of your observations on the improved stoves.

**51.) Please observe the condition of the improved stoves present (several answers possible):**

Model Rocket Lorena with firewood shelf:

51.a) small cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
51.b) big cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
51.c) broken pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
51.d) pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
51.e) worn out combustion chamber	<input type="checkbox"/> yes <input type="checkbox"/> no
51.f) broken door	<input type="checkbox"/> yes <input type="checkbox"/> no
51.g) stove demolished	<input type="checkbox"/> yes <input type="checkbox"/> no
51.h) firewood shelf	<input type="checkbox"/> yes <input type="checkbox"/> no
51.i) cracked / broken chimney	<input type="checkbox"/> yes <input type="checkbox"/> no
51.k) broken inter-saucepan cavity duct	<input type="checkbox"/> yes <input type="checkbox"/> no

51.m) Are there any modifications to the original design?

yes  no

51.n) If yes: Which modification do you observe?

- bigger door                       no chimney                       grate added to use charcoal  
 enlarging of the saucepan cavity                       other (specify)\_\_\_\_\_

Model Rocket Lorena with bypass air inlet

52.a) small cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
52.b) big cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
52.c) broken pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
52.d) pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
52.e) worn out combustion chamber	<input type="checkbox"/> yes <input type="checkbox"/> no
52.f) broken door	<input type="checkbox"/> yes <input type="checkbox"/> no
52.g) stove demolished	<input type="checkbox"/> yes <input type="checkbox"/> no
52.i) cracked / broken chimney	<input type="checkbox"/> yes <input type="checkbox"/> no
52.k) broken inter-saucepan cavity duct	<input type="checkbox"/> yes <input type="checkbox"/> no

52.m) Are there any modifications to the original design?

yes  no

52.n) If yes: Which modification do you observe?

- bigger door                       no chimney                       grate added to use charcoal  
 enlarging of the saucepan cavity                       other (specify)\_\_\_\_\_

Shielded Fire with firewood shelf

<b>53.a)</b> small cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.b)</b> big cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.c)</b> broken pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.d)</b> pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.e)</b> worn out combustion chamber	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.f)</b> broken door	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.g)</b> stove demolished	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>53.h)</b> firewood shelf	<input type="checkbox"/> yes <input type="checkbox"/> no

**53.m)** Are there any modifications to the original design?

yes  no

**53.n) If yes:** Which modification do you observe?

bigger door  no chimney  grate added to use charcoal

enlarging of the saucepan cavity  other (specify) \_\_\_\_\_

Shielded Fire with bypass air inlet

<b>54.a)</b> small cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.b)</b> big cracks on the body	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.c)</b> broken pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.d)</b> pot-rests	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.e)</b> worn out combustion chamber	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.f)</b> broken door	<input type="checkbox"/> yes <input type="checkbox"/> no
<b>54.g)</b> stove demolished	<input type="checkbox"/> yes <input type="checkbox"/> no

**54.m)** Are there any modifications to the original design?

yes  no

**54.n) If yes:** Which modification do you observe?

bigger door  no chimney  grate added to use charcoal

enlarging of the saucepan cavity  other (specify) \_\_\_\_\_

Other observations: \_\_\_\_\_

\_\_\_\_\_