

Pathways to sustainable smoke alleviation

Day 1

This questionnaire is the first round household questionnaire for DFID-Funded study R8345 looking at ways to scale up smoke-alleviation interventions

Household questionnaire

FIRST VISIT AT START OF 24-hour MONITORING			
IH. Identifying household and cook			
IH1	Household number		
IH2	Name of interviewer		
IH3	Identifier for interviewee (NOT her name or initials)		
IH4	Date of interview		
EQ. Setting up equipment			
<i>Describe to the woman the reason for using the equipment and ensure she is still happy to have the monitor set up in her kitchen. If 'yes', set up monitor</i>			
EQ1	Is the woman happy to have the CO monitor set up in her kitchen?	No (terminate session) Yes (turn on CO monitor)	1 2
EQ2	Initial reading on monitor		
EQ3	Time of day		
EQ4	Morning or Evening?	Morning Evening	1 2
What interventions is the woman planning to have in her home to reduce smoke?			
EQ5	Smoke hood	No Yes	1 2
EQ6	Eaves spaces	No Yes	1 2
EQ7	Upesi or other ceramic stove (Kenya)	No Yes	1 2
EQ8	'Rocket' type stove (Kenya)	No Yes	1 2
EQ9	Fireless cooker (Kenya)	No Yes	1 2
EQ10	LPG stove	No Yes	1 2
EQ11	Solar cooker	No Yes	1 2
EQ12	Kisra plate	No Yes	1 2
EQ13	Cooking outside?	No Yes	1 2
EQ14	Other	No Yes	1 2

EQ15	If 'other intervention' please describe		
ED. Education and employment			
ED1	How many of your children go to school ? _ (this applies to any age) Enter zero if none go to school		
ED2	Are you able to read?	No Yes	1 2
ED3 ED4	If you went to school, for how long did you attend school? (insert years and months)	Years	
		Months	
ED5	How do you earn a living? (This question is to the woman)		
ED6	How does your husband earn a living? (only ask if the woman is married) – please describe status if woman is not married (eg unmarried; widow etc.)		

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Day 2

Household questionnaire

SECOND VISIT AFTER THE 24-hour MONITORING - all the questions in this section refer to the time when the monitoring was taking place

ST. Type of stove

ST1	What was the main stove type you used when the monitoring was taking place?	Three-stone fire	1
		Improved ceramic stove	2
		Metal sawdust/residue stove	3
		Traditional charcoal stove	4
		Improved (ceramic lined) charcoal stove	5
		Traditional tripod stove (Nepal)	6
		Improved tripod stove (Nepal)	7
		Kisra plate (Sudan)	8
		Kisra plate and three-stone fire (Sudan)	9
		LPG stove	10
		Other	11
ST2	If 'other' please describe type of stove		

FL. Fuel use on day of monitoring

FL1	What was the main fuel you used for cooking (and keeping warm) in your kitchen whilst the monitoring was taking place? <i>Only mention 'keeping warm' if appropriate</i>	Wood	1
		Charcoal	2
		Residues	3
		LPG	4
		Kerosene	5
		Solar	6
		Other	7
FL2	If 'other main fuel' please describe other fuel used		
FL3	If you used more than one fuel, what was the second fuel you used for cooking (and keeping warm) whilst the monitoring was taking place? <i>Only mention 'keeping warm' if appropriate</i>	Wood	1
		Charcoal	2
		Residues	3
		LPG	4
		Kerosene	5
		Solar	6
		Other	7
FL4	If 'other second fuel' please describe other fuel used		
FL5	Was the main fuel you used whilst the monitoring was taking place completely dead or 'green' ? (Green wood is wood that has just been cut down from a living tree and is not completely dried out)	Did not use biomass	1
		Completely dead	2
		'Green'	3

FL6	How dry was the fuel you used whilst the monitoring was taking place?	Did not use biomass Wet Quite dry Very dry	1 2 3 4
FL7	Was the fuel that you used for cooking (and heating) during the monitoring period bought or gathered ?	All or mainly gathered –go to FL16 About half gathered, rest bought All or mainly bought	1 2 3
FL8	How much did you pay for fuel the last time you bought it? <i>(This can be formal – e.g. Kenya Shillings per bag, or Rupees per kilo, or whatever is appropriate that gives the currency for the quantity you've written)</i>	Quantity of fuel bought	
FL9		Cost for this quantity	
FL10		Currency per unit (eg Kenya Shillings per bag)	
FL11	How many days do you expect this quantity of fuel to last?	Days =	
FL12 FL13 FL14	What were the reasons for buying this fuel? <i>(circle up to three reasons)</i> Please do not prompt	Convenience Cleanliness Time Scarcity Other reason	1 2 3 4 5
FL15	If 'other reason' what was the reason for buying fuel?		
FL16	If you gathered any fuel, how adequate were the supplies ? <i>(Circle '1' if person did not gather fuel)</i>	Did not gather any (Go to CK1) Very scarce Rather scarce Just enough Plentiful	1 2 3 4 5
FL17	About how long did your collection trip take (hours and minutes)? (Enter zero if did not gather)	Hours	
FL18		Minutes	
FL19	In the last week (seven days) how many times did you or your family gather fuel?		
FL20	How many children, aged under 16 years, gathered fuel in the last week (seven days)?		
CK. Cooking sessions			
Times when cooking started - What time did each session begin since monitor switched on? Please write "No Cooking" in each box where cooking did not take place (for example, if there were only two lots of cooking done, please mark the remaining three with 'No Cooking' in each box)			
CK1	First session started at		AM / PM
CK2	Second session started at		AM / PM
CK3	Third session started at		AM / PM
CK4	Fourth session started at		AM / PM

CK5	Fifth session started at		AM / PM
CK6	Did you sleep in the room with the fire alight during the monitoring period?	No Yes	1 2
CK7	Did you sleep in a room with a different stove alight during the monitoring period?	No Yes	1 2
LT. Lighting			
LT1	What was the main fuel you used for lighting whilst the monitoring was taking place?	Electricity (grid) Electricity (battery) Electricity (local generator) LPG Kerosene Candles Other	1 2 3 4 5 6 7
LT2	If 'other lighting fuel' please specify		
LT3	Did you buy the lighting fuel you used whilst the monitoring was taking place?	No (go to OT1) Yes	1 2
LT4	How much did you pay last time for lighting fuel? <i>(Eg Kenya Shillings per bag, or Rupees per kilo, or whatever is appropriate – could be electricity per day – if that is how it is bought)</i>	Quantity	
LT5		Cost	
LT6		Currency per unit	
LT7	When you buy this quantity of fuel for lighting, how many days does this usually last? <i>(if electricity is bought per day, then in the 'days' box, put '1', if it is per week, then put '7')</i>	Days	
OT. Enterprise & other uses			
OT1	For how many days each week do you use fuel in your own house for an enterprise or small business? <i>(Enter '0' if no enterprise or small business)</i>	No of days per week =	
OT2	Did you use fuel for an enterprise or small business whilst the monitoring was taking place?	No – go to OT6 Yes	1 2
OT3	If 'yes', how much of the fuel you used whilst the monitor was switched on was used for enterprise?	None or very little Quarter Half Three-quarters Almost all	1 2 3 4 5
OT4	What was the enterprise?	Food for sale Drink for sale Other	1 2 3
OT5	If 'other enterprise' please specify		
OT6	Did you use fuel for tasks other than cooking and/or enterprise whilst the monitoring was taking place?	No – go to WM1 Yes	1 2
OT7	If 'yes' what were those tasks? Please do not prompt	Animal feed Water boiling for washing Ironing Other	1 2 3 4

OT8	If 'other tasks' please specify the tasks		
OT9	What fuels did you use for any other task or tasks?	Wood Charcoal Residues LPG Kerosene Solar Electricity (grid) Electricity (battery) Electricity (local generator) Other	1 2 3 4 5 6 7 8 9 10
WM. Comments and observations on non-health issues from interviewee			
WM1	Can you think of any ways in which your last 24 hours (since my visit yesterday) was different from how it would have been if monitoring had not been taking place?	No (go to WM3) Yes	1 2
WM2	Please describe how your day was different		
WM3	What impacts do you feel that the interventions that you are planning to install will have? <i>Please do not prompt – continue on reverse if needed</i>		
WM3	Are there any comments you would like to make which you feel we should know? <i>Please do not prompt – continue on reverse if needed</i>		
HS. Section for interviewer			
HS1	Is the kitchen.....	Enclosed? Semi-open?	1 2
HS2	Location of kitchen	Separate building Separate room attached to rest of main house Main living area in house?	1 2 3
HS3	Kitchen size?	Much larger than average About average Much smaller than average	1 2 3
HS4	What is the roof made of in the room with the main stove?	Thatch Mud and thatch Tin roof Wooden tiles Other	1 2 3 4 5
HS5	If 'other' please specify		

HS6	What are the walls made of in the room with the main stove?	Mud Woven sticks Stone Stone and wood Woven reed Other	1 2 3 4 5 6
HS7	If 'other, please specify		
HS8	Approximately how deep is the eaves space between the walls and the roof?(in centimetres) - if there is no space, put zero	None Small (up to 9cm) Medium (10cm -29cm) Large (30cm or more)	1 2 3 4
HS9	About how many metres of wall have eaves space between the wall next to the stove and the roof? - if there is no space, put zero	Approximate length in metres =	
HS10	Is the kitchen	Bright and airy? Average? Dark and enclosed?	1 2 3
HS11	Were there any other sources of smoke during the monitoring in the house or just outside?	No Incense Sauna (Sudan) Heavy traffic Rubbish burning Dust from industry / enterprise Other	1 2 3 4 5 6 7
HS12	If 'other' please describe:		
WE. Weather			
WE1	Over the monitoring period, has the weather been.....	Hot and dry? Hot and humid? Moderate temperature and dry? Moderate temperature and humid? Cold and dry? Cold and damp / wet? Other	1 2 3 4 5 6 7
WE2	If 'other' please describe the weather		
WE3	Wind – has it been	Still (no wind) Breezy (light wind) Very windy	1 2 3
EQ. & IN. End of monitoring session & comments from interviewer			
EQ17	Final reading on monitor		
EQ18	Monitor is switched off	No Yes	1 2
IN1	Observations from interviewer on anything whilst the monitoring was taking place which you may feel affect the results		