

**COMMUNITY FOREST PROJECT  
WIVES SURVEY**

A1. Date of Survey	(mm/dd/yyyy)	
A2. Enumerator ID	(Text)	
A3. Supervisor ID	(Text)	
A4 District	1=Nyimba 2=Mambwe 3=Lundazi	
A4. Chiefdom:	1= Luembe 2=Nyalungwe 3=Malama 4=Mwanya 5=Msoro 6=Masemphangwe 97=Other	(code)
A4b Other, specify	(Text)	
A6. Village ID	(Integer)	
A7. Main village name		
A.7b Actual village name		
A7. Household ID	(Integer)	
A8. Retype Household ID	(Integer)	

**WRITTEN CONSENT SCRIPT**

READ OUT SCRIPT, WORD FOR WORD

A9. Did the respondent consent?	0=No 1=Yes	(code)
<i>If 0, skip to Conclusion</i>		

**SECTION B. HOUSEHOLD INFORMATION**

B.1. Name of respondent		
B.2 What is your marital status	1=Monogamously married 2=Polygamously married	(Code)
B.3 Name of husband		
B.4 What is your tribe?	1=Chewa 2=N'goni 3=Nsenga 4=Tonga 5=Tumbuka 6=Senga 7=Kunda 8=Biza/Bisa 9=Lunda	11=Kaonde 12=Lozi 13=Bemba 14=Zambian only 15=Ngulube 16=Ambo 17=Bambo 18=Lala 97=Other, please
		(Code)

	10=Luvale	specify	
B4b. If other, please specify	(Text)		
B.5 What is your age? <i>If 888, ask B.4b</i>			
B.5b Approximately what is your age?	1=18-30 2=31-40 3=41-50 4=51-60 5=60 or more 888=Don't know 999=Prefer not to reply		
B6. What is your religion, if any?	1=Christian 2=Islam 3=Not religious 4=Spiritual/Mzimo		
B.7 What is the highest level of education you have attained?	1=None 2=Grade 1/Sub-standard A 3=Grade 1/Sub-standard B 4=Grade 2/Standard 1 5=Grade 3/Standard 2 6=Grade 4/Standard 3 7=Grade 5/Standard 4 8=Grade 6/Standard 5 9=Grade 7/Standard 6 10=Grade 8/Form 1 11=Grade 9/Form 2 12=Grade 10/Form 3 13=Grade 11/Form 4 14=Grade 12/Form 5 15=Post-secondary 888=Don't know 999=Preferred not to answer		
B7. Were you born in this village? <i>If B4=1, Skip to B8</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond		(Code)
B8. Where is the village where you were born? <i>Ask if B4=0</i>	1= Another village in the area 2= Another area the in chiefdom 3=Another chiefdom in Eastern province 4=Another province in Zambia 5=Another country		
B9. Why did you move to this village? Select all that apply. <i>Ask if B4=0</i>	1=Land for agriculture 2=Marriage 3=Family reason (take care of elder parent, be close to relatives)		(Code)

	4=School 5=Job opportunities 6= Forced to leave 7= Witchcraft 8= Unfair treatment at previous village 97=Other, please specify 888=Don't know 999=Prefer not to respond	
B7. How many years have you lived in this village? Ask if B4=0	(Integer)	
B8. In the past 5 years, have you considered moving away from this village? If B7=0, skip to B.10	0=No 1=Yes 999=Refused to answer	(Code)
B9. Why did you consider moving?	1=Salaried job 2=More money for work they are currently doing (petty trade, farming, etc.) 3=More land/more fertile land/better yields/etc. 4=To be with family/friends, family issues (divorce, etc) 5=Better education for children 6= Witchcraft 7= Unfair treatment/discrimination 8=Conflict with animals 9=Forced to leave previous village 97=Other, please specify	(Code)
B9b. Other, specify	(text)	
B10. Why did you not move?	1=Not enough money 2=No friends or family in new area 3=Family/friends needed me to stay/asked me to stay 4=My land is here/can't get land in a new area 5=I moved and came back to this village 6=Waiting to harvest crops 7=Just decided not to 888=Don't know 97=Other, please specify	(Code)
B10b. Other, specify	(text)	

[Showing ladder of wealth] This is a ladder of wealth from **1-10**, The people at the top (10) are the wealthiest and live very comfortably. The people at the very bottom (1) are the poorest.

B12. From 1 to 10, Where on this ladder is your household?	(Integer 1-10)
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## SECTION C. FOREST CONDITIONS

I would like to ask questions about the conditions and access to each of the forests you have access to. Let's start with the largest forest.

Forest code	C1. Name of the forest <i>If the respondent does not know the name, create a name together that you will use to refer to the forest in future questions.</i>	C1b. ID of the forest (given by supervisor)	C2. What type of forest is this? 1=State or GMA 2=Communal land in this village 3=Communal land in another village 4=Private land allocated to the household 5=Private land allocated to another household in this village 6=Private land allocated to another household in another village	C3. In your view, how do you describe the overall condition of this forest? <i>A good forest has trees, undergrowth, and resources for the community</i> 1=Very Good 2=Good 3=Neutral 4=Bad 5=Very Bad	C4. In your own view, compared to 3 years ago, has the overall condition of the forest worsened or improved?  1=Significantly worse 2=A little worse 3=Remained the same 4=Improved a little 5=Significantly improved	C5. During the last 3 years, has there been any change to the size/area of the forest? 1=Increased greatly 2=Increased slightly 3=Stayed the same 4=Decreased slightly 5=Decreased greatly <i>If 3, skip to C6</i>	C5b. If it's increased or decreased, tell me why?  <i>PROBE AND CODE</i> <i>Refer to codes below</i>	C6. During the last 3 years, has there been any change in the thickness/amount of trees in the forest?  1=Increased greatly 2=Increased slightly 3=Stayed the same 4=Decreased slightly 5=Decreased greatly  <i>If 3, skip to Next forest</i>	C7. Why has $\{\text{forest\_1}\}$ 's thickness increased?  <i>PROBE AND CODE</i> <i>Refer to code 105 below</i>  <i>Ask if C6=1 or 2</i>	C7b. Why has $\{\text{forest\_1}\}$ 's thickness decreased?  <i>PROBE AND CODE</i> <i>Refer to code 106 below</i>  <i>Ask if C6=4 or 5</i>
1										
2										
3										
4										
5										

### 105–Reasons for increased area/increased canopy thickness

1=land left to regenerate  
2=planting trees  
3=conservational activities/sustainable harvest practices  
4=reduced use from large-scale commercial users  
5=reduced use from local/small scale commercial users  
6=climate change (increase rainfall, change in

8=reduced charcoal production  
9=reduced timber harvesting  
10=Reduced fires  
11=People from outside restricting access  
12=State or local authorities restricting access  
13=Customary/community restrictions on access  
14=Some other restriction in access, specify  
15=New or stronger monitoring of the forest or enforcement of forest rules

### 106–Reasons for decreased area/ decreased canopy thickness

1=small-scale clearing for agriculture  
2=large-scale projects (plantations, new settlements, mining, etc)  
3=ongoing or increased charcoal production  
4=ongoing or increase timber harvesting  
5=ongoing or increased brick burning  
6=poor harvesting practices  
7=bush burning  
8=natural disasters or pest  
9=Overgrazing or browsing from wild animals such as

temp) 7=reduced roads/transport to the area	16=Changes in animal movement 97=Other, please specify	elephants 10=Part of the forest was sold 11=Reduced rainfall 12=Land cleared for streams/irrigation 97=Other, please specify
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## SECTION D. FOREST ACCESS AND USE

Forest code	Name of the forest	D.1 How many km is it from your home to the edge of <forest>?	D2. How do you typically access this forest? <i>Select all that apply</i>  1=Walk 2=Bike 3=Motorized transport 4=Donkey/oxcart 5= Canoe	D3. How many minutes does it take you to reach this forest from your home? ONE-WAY	D4. In the past 1 year, have there been any new restrictions on your ability or ease of accessing (or collecting resources from) this forest?  0=No 1=Yes  <i>If 0, skip to next forest</i>	D5. Please describe the restrictions:  1=new rules that prevent villagers from entering the forest 2=new rules that prevent villagers from harvesting products that my HH uses 2=new rules that prevent villagers from harvesting products that my HH does not use 3=stricter enforcement of existing rules, such as more patrols, or higher fines for breaking rules 4=Can no longer access areas because they are dangerous 5=Can not longer access areas because a private company or infrastructure project is taking place 97=Other, specify	D6. Who imposed the restrictions? Select all that apply 1=Headperson 2=Chief 3=DFO officials 4=ZAWA officials 5=Private landowner 6=Company 7=Other government official 97=Other, please specify	D7. What is the impact of losing access to this forest on you?  <i>Probe and code; select all that apply</i>  1=Lost income 2=Lost subsistence resources 3=Lost access to cultural site/resource 4= No impact from new restrictions 5=Lost grazing area 97=Other, please specify 888=Don't know
1								
2								
3								
4								
5								

Forest code	Name of the forest	D8. How have you responded to the new restrictions? 1= Harvesting forest products from open lands 2= Harvesting from other communal or government forests 3= Relying more on alternative products 4=Doing nothing, going without 5=Continue to access the area illegally 97=Other, specify	D9. Do you need a permit to collect wood or non-wood forest products? 1=Yes 2=Yes, for some products 3=No 888=Don't know <i>If 3, skip to D.11</i>	D10. What wood or non-forest products require permits? See codes below. Probe and code. <i>Select all that apply</i>	D11. In your opinion, is the permit granting process open and transparent? 0=No 1=Yes 888=Don't know 999=Prefer not to respond	D12. Are there now more/less different wood and non-wood forest products available in that forest/wooded area than 3 years ago? 1=Much more available 2=A little more availability 3=About the same 4=A little less 5=Much less availability	D. 13 Did you clear new land in <forest> in the past 3 years? 0=No 1=Yes 888=Don't know 999=Prefer not to respond	D.14 How much forest did you clear?
								Int Unit
1								
2								
3								
4								
5								

11–Wood/Non wood forest products			
1=Timber 2=Fuel wood 3=Charcoal 4=Wood for wood carving 5=Wood for poles	6=Fruit, nuts, seeds, roots, berries, etc. 7=Mushrooms 8=Fodder 9=Rattan 10=Plant medicines	11=Herbs and spices 12=Dying/tanning 13=Seeds (for regeneration purposes) 14=Fibres (for rope, etc) 15=Other plant products	16=Wildlife (including bushmeat) 17=Beekeeping activities (e.g. honey) 18=Caterpillar 97=Other, please specify

# Section D. Forest Use and Access

Forest code	Name of the forest	D.15. Did you apply for permission to clear the new land? 0=No 1=Yes 888=Don't know 999=Prefer not to respond	D.16 From whom did you apply for permission? 1=Headman or induna 2=Village elders 3=Village committee 4=Chief 5=State authority 6-ZAWA 7=DFP 97=Other, specify 888=Don't know 999=Prefer not to respond	D.17 What was the land used for after clearing? 1=Cropping 2=Tree plantation 3=Livestock 4=Infrastructure/settlements 5=Producing ash for fertilizer 6=Not used 7=Left to regenerate 97=Other	D.18 Why did you have to clear new land? 1=Previous land was small 2=Previous land lost fertility 3=Wanted to have my own piece of land 4=Previous land was taken away 5=Wanted to be away from livestock 6=Wanted to be closer to forests 7=Shifted to this village recently 8=Running away from land dispute 9=I was displaced 97=Other, specify 888=Don't know 999=Prefer not to respond
1					
2					
3					
4					
5					



	<p>D.12. How likely is it that elites from outside your chiefdom will take some of the customary forest land used by your village without authorization from the village in the next 3 years? <b>(helite3)</b></p>	<p>1=Impossible/would never happen  2=Highly Unlikely  3=Unlikely  4=Unsure/Don't know  5=Likely  6=Highly Likely  7=Happening right now  888=Don't know  999=Prefer not to respond</p>	(Code)
	<p>D.13. How likely is it that a chief will sell or give away the customary forestland used by this village for investment purposes in the next 3 year without authorization from the village?</p>	<p>1=Impossible/would never happen  2=Highly Unlikely  3=Unlikely  4=Unsure/Don't know  5=Likely  6=Highly Likely  7=Happening right now  888=Don't know  999=Prefer not to respond</p>	(Code)
	<p>D.14 How likely is it that investors will sell or give away the customary forestland used by this village for investment purposes in the next 3 years without authorization from the village?</p>	<p>1=Impossible/would never happen  2=Highly Unlikely  3=Unlikely  4=Unsure/Don't know  5=Likely  6=Highly Likely  7=Happening right now  888=Don't know  999=Prefer not to respond</p>	(Code)
	<p>D.15 How likely is it that the government will sell or give away the customary forestland used by this village for investment purposes in the next 3 years without authorization from the village?</p>	<p>1=Impossible/would never happen  2=Highly Unlikely  3=Unlikely  4=Unsure/Don't know  5=Likely  6=Highly Likely  7=Happening right now  888=Don't know  999=Prefer not to respond</p>	(Code)

## SECTION E. FOREST PRODUCTS

We would like to ask you about wild products that you personally collect from the forests FOR INCOME.

	Wood/forest product	E1. What are the three most important products you collect from forests FOR INCOME?	E1b. If <i>TIMBER</i> is selected: What species of timber is most important? 1=Moiombo 2=Gricidia 3=Mukwa 4=Mubanga 5=Mulambe 6=Mupani 7=Pingo 8=Kamponi 9=Mwazama saka 10=Misenga 97=Other, specify	E2. On average, what quantity of this product do you typically collect in a MONTH?	E2b. Unit (wood)  1. Small bundle 2. Large bundle 3. Piece 97. Other)	E2b. Unit (coal)  1. Plastic bag 2. 10kg bag 3. 25kg bag 4. 50 kg bag 5. 90 kg bag	E2b. Unit (harvest products) 1. Meda 2. b.p. 3. Heap 4. Tin 5. Gallon 6. kg 7. Plate 8. Piece 9=Dish 10=Basket 11=Ox cart 97. Other	E.2b Unit (honey) 1. Litre 2. Small bottle 97. Other	E.3. On average, how many months of the year do you typically collect this product?  <i>Integer from 1-12</i>	E4. Where do you sell this <product>? <i>Select all that apply</i> 1. In the village, to anyone 2. At an informal place outside the village 3. At a formal market 4. Directly to a company, picked up in the village 5. Directly to a company, picked up outside the village 6=At the boma 7=At the roadside 777=Do not sell products 97=Other 888=Don't know 999= Prefer not reply	E5. Over the last 12 months what was your total income from selling <product>?
a	Timber										
b	Fuel wood										
c	Charcoal										
d	Wood for wood carving										
e	Wood for poles										

f	Fruit, nuts, seeds, roots, berries, etc.										
g	Mushrooms										
h	Fodder										
i	Rattan										
j	Plant medicines										
k	Herbs and spices										
l	Dying/tanning										
m	Seeds (for regeneration purposes)										
n	Fibres (for rope, etc)										
o	Other plant products										
p	Wildlife (including bushmeat)										
q	Honey from forest beekeeping activities										
r	Caterpillar										
s	Other, specify										
t	None										

Next, please tell me about the three most important forest products you collect for CONSUMPTION PURPOSES.

	Wood/forest product	E6. Please rank the top three most important products for the household's own consumption	E6b. If <i>TIMBER</i> is selected: What species of timber is most important? 1=Moiombo 2=Gricidia 3=Mukwa 4=Mubanga 5=Mulambe 6=Mupani 7=Pingo 8=Kamponi 9=Mwazamasaka 10=Misenga 97=Other, specify	E7. On average, what quantity of this product do you typically collect in a MONTH?	E7b. Unit (wood)  1. Small bundle 2. Large bundle 3. Piece 97. Other	E7b. Unit (coal)  1. Plastic bag 2. 10kg bag 3. 25kg bag 4. 50 kg bag 5. 90 kg bag	E7b. Unit (harvest products)  1. Meda 2. b.p. 3. Heap 4. Tin 5. Gallon 6. kg 7. Plate 8. Piece 9=Dish 10=Basket 11=Ox cart 97. Other	E7b Unit (honey ) 1. Litre 2. Small bottle 97. Other	E8. On average, how many months of the year do you typically collect this product?  <i>Integer from 1-12</i>	E9. Has the availability of <product> changed over the past 3 years? 1=Increased greatly 2=Increased slightly 3=No change 4=Decreased slightly 5=Decreased greatly	E10 What have you done in response to the decline in availability of <product> ? <i>See code 107 Probe and code, Select all that apply</i>
a	Timber										
b	Fuel wood										
c	Charcoal										
d	Wood for wood carving										
e	Wood for poles										
f	Fruit, nuts, seeds, roots, berries, etc.										
g	Mushrooms										
h	Fodder										
i	Rattan										
j	Plant medicines										
k	Herbs and spices										
l	Dying/tanning										
m	Seeds (for regeneration purposes)										
n	Fibres (for rope,										

	etc)										
o	Other plant products										
p	Wildlife (including bushmeat)										
q	Beekeeping activities (e.g. honey)										
r	Caterpillar										
s	Other, specify										
t	None										

### **I07-Response to decline**

- 1=It did not influence the harvest of forest products
- 2=Increase collection time (including travelling to areas further away)
- 3=Buy the product from other suppliers
- 4=Reduce harvesting of the product
- 5=Stop harvesting of the product
- 6=Substitute with other type of forest products
- 7=Substitute with agricultural products
- 8=Conserving standing trees
- 9=Planting trees
- 10= Restricting access/use of forest
- 97=Other, please specify

## SECTION F. FOREST DISPUTES

Forest code	Name of the forest	F1. Have you ever experienced a dispute over use or access to this forest over the past 12 months? 0=No 1=Yes  <i>If 0, skip to next forest</i>	F2. What was this dispute about?  <i>PROBE AND CODE</i>  <i>See code 112. Select all that apply</i>	F3. Who was involved in the dispute?  <i>See codes 108</i> <i>Select all that apply</i>	F3b. Other, specify	F4. Is the dispute resolved? 0=No 1=Yes 888=Don't know	F5. Where is the FIRST place this dispute was taken to be resolved?  <i>See Code 110 Below</i>	F6. Are there any other places that the dispute was taken for resolution? <i>See Code 110 Below</i> <i>Select all that apply</i>	F7. How long did it take for the dispute to be resolved?  <i>Skip if F4=0</i> <i>See code 109 below</i>	F8. How satisfied were you with the outcome? <i>Skip if F4=0</i>  <i>See Code 111 Below</i>
1										
2										
3										
4										
5										

<b>108–Involved in dispute</b>	<b>109–Time Period</b>	<b>110–Dispute Place</b>	<b>111–Satisfaction</b>	<b>112–Dispute Topic</b>
1=Official or leader from your village 2=Official or leader from outside your village 3=Household/Strangers/migrants from another village 4=Chief or other higher authority figure 5=Forest service 6=ZAWA 97=Other, please specify	1=A couple days 2=About 1 week 3=Several weeks 4=About one month 5=Several month 6=About one year 7=2-3 years 8=More than 3 years	1=Headman/woman 2= Headman/woman's Induna 3=NGO 4=Cooperative farmer group 5=District Forestry Official 6=Village Land Committee 7=Village elders 8=Village action group 9=Chief or other higher authority 10=Chief's Induna 11=Resolved myself 12=Community resource board 13= Church/God 97=Other, please specify	1=Very satisfied 2=Satisfied 3=Neutral 4=Dissatisfied 5=Very dissatisfied 999=Prefer not to respond	1=Boundary disputes 2=Which NTFPs can and cannot be harvested from forests 3=Grazing of livestock in forests 4=Cutting trees in forests 5=Ownership over trees in forests 6=Fires or burning in the forest 7=Hunting or fishing 8=Interfamilial conflicts (inheritance/divorce/etc.) 97=Other, please specify 888=Don't know 999=Prefer not to respond

## SECTION G. DEFORESTATION & CLIMATE CHANGE

	<p>G1. The following is a list of development problems often faced by people in this area. What are the five biggest problems facing your household? Please choose 5 from the list, and rank them from 1 to 5, with 5 being the biggest problem you face, and 1 being the smallest problem.  <i>Enumerator: Please provide pictures as examples.</i></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1= Forest degradation</p> <p>2= Changes in temperature</p> <p>3= Changes in rainfall</p> <p>4=Lack of jobs/income</p> <p>5= Lack of available schooling/education opportunities</p> <p>6=Bad roads</p> <p>7= Lack of health services</p> <p>8= Lack of electricity</p> <p>9= Land re-allocation</p> <p>10= Poor yields/lack of food</p> </div> <div style="width: 50%;"></div> </div>
G1a. 1st	(code)
G1b. 2nd	(code)
G1c. 3rd	(code)
G1d. 4th	(code)
G1e. 5th	(code)

	<p>G2. In the past 5 years, have you observed any of the following changes in your community?</p>	<p>1=Reduced rainfall  2=Increased rainfall  3=Changes in seasonal patterns (e.g. when rainy and dry seasons begin)  4=Changes in intensity/concentration of rainfall (e.g. all the rain falls in fewer days than before)  5=Drought  6=Flooding/landslides  97=Other, please specify  0=None</p>	(code)																					
	<p>G3. In the past 5 years, have you observed any of the following changes in the forest area</p>	<p>1=Decline in abundance of game and non-timber forest products  2=Change in seasons of flowering or fruiting  3=Decline in crops/harvest cycles in surrounding areas  4=Decline in productivity or health of fisheries  0=None  5=Increase in trees  6=Decrease in trees  97=Other, please specify:</p>	(code)																					
	<p>G4. In your opinion, besides harvest products what are the three most important benefits the nearby forests (including relatively densely wooded areas, but not sparse trees on farms) provide to your village?</p> <p><i>Please rank the top three</i></p>	<table border="0"> <tr> <td>1=None</td> <td>12=Cultural heritage</td> </tr> <tr> <td>2=Soil protected</td> <td>13=Recreation/tourism</td> </tr> <tr> <td>3=Soil fertility</td> <td>14=Aesthetic</td> </tr> <tr> <td>4=Area for grazing areas</td> <td>15=Education/scientific studies</td> </tr> <tr> <td>5=Water conservation</td> <td>16=Employment</td> </tr> <tr> <td>6=Water purification</td> <td>17=Building material</td> </tr> <tr> <td>7=Climate regulation</td> <td>18=Land for farming</td> </tr> <tr> <td>8=Disease control</td> <td>19=Rainfall</td> </tr> <tr> <td>9=Windbreak</td> <td>97=Other, please specify</td> </tr> <tr> <td>10=Shade</td> <td>999=Not applicable</td> </tr> <tr> <td>11=Religious/spiritual</td> <td></td> </tr> </table>	1=None	12=Cultural heritage	2=Soil protected	13=Recreation/tourism	3=Soil fertility	14=Aesthetic	4=Area for grazing areas	15=Education/scientific studies	5=Water conservation	16=Employment	6=Water purification	17=Building material	7=Climate regulation	18=Land for farming	8=Disease control	19=Rainfall	9=Windbreak	97=Other, please specify	10=Shade	999=Not applicable	11=Religious/spiritual	
1=None	12=Cultural heritage																							
2=Soil protected	13=Recreation/tourism																							
3=Soil fertility	14=Aesthetic																							
4=Area for grazing areas	15=Education/scientific studies																							
5=Water conservation	16=Employment																							
6=Water purification	17=Building material																							
7=Climate regulation	18=Land for farming																							
8=Disease control	19=Rainfall																							
9=Windbreak	97=Other, please specify																							
10=Shade	999=Not applicable																							
11=Religious/spiritual																								
	G4. 1st	(code)																						
	G5. 2nd	(code)																						
	G6. 3rd	(code)																						

<p>G7. On a scale from 1 to 10, with 1 being the smallest problem and 10 being the biggest problem, how big of a problem are changes in rainfall patterns and/or changes in temperature to development of your village?</p> <p><i>If the respondent is not sure, enter 777</i></p>	(Integer 1-10)
<p>G8 On a scale from 1 to 10, with 1 being the smallest problem and 10 being the biggest problem, how big of a problem is deforestation or forest degradation to the development of your village?</p> <p><i>If the respondent is not sure, enter 777</i></p>	(Integer 1-10)

Now I am going to read you a series of statements. Please tell me how much you agree or disagree with the following.	
<p>G9. It is important that village members take steps reduce deforestation and the degradation of forest resources.</p>	<p>1=Strongly agree  2=Agree</p>



		3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond
	G10 It is important that village members take steps to protect themselves from these changes in temperature and rainfall patterns.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond
	G11 I believe it is important to protect the forests in my village.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond

## SECTION H: FOREST VALUATION

H.1a SURVEY EXPERIMENT 1: Version 1		
	<p>In the last year, how many of the following activities did you participate in to earn money? I do not want you to tell me the names of the activities you participated in, only the total number of activities. Tell us HOW MANY, NOT which ones.</p> <p>Activity 1= Farming, agriculture  Activity 2= Petty trade  Activity 3= Animal husbandry  Activity 4= Salaried government job in Lusaka</p>	(Integer)

H.1b SURVEY EXPERIMENT 1: Version 2		
	<p>In the last year, how many of the following activities did you participate in to earn money? I do not want you to tell me the names of the activities you participated in, only the total number of activities. Tell us HOW MANY, NOT which ones.</p> <p>Activity 1= Farming, agriculture  Activity 2= Petty trade  Activity 3= Animal husbandry  Activity 4= Salaried government job in Lusaka  Activity 5= Harvesting and selling protected timber species</p>	(Integer)

H.2 Please rank/ grade the following list of assets/resources/ properties in terms of most important to least important for the future/development of your community from first to third most important.

a. Health Clinic	(Integer)
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b. Enough land to farm on	(Integer)
c. School	(Integer)
d. Paved roads	(Integer)
e. Forest resources	(Integer)
f. Electricity	(Integer)
g. Clean water	(Integer)
h. Salaried jobs	(Integer)
i. Closer or more frequent markets	(Integer)
j. Conservation farming and eco-charcoaling practices that protect the environment	(Integer)
k. New farming techniques (ex: tree nursery, fruit orchards, vegetable production, crop diversification, wood lots, etc.)	(Integer)

## SECTION I. GOVERNANCE AND ACCOUNTABILITY

Now I am going to ask you some questions about decision-making about forest-related issues in your village.

11. In your village, what person or group is the most important decision maker about the forests that your community uses?	1=Headman 2=Headman's Induna 3=Chief 4= Chief's Induna 5=Council of Elders 6=Community Resource Board 7=Local government 8=DFO 9=Most or all villagers together 10=a local or national NGO 97=Other, please specify	(Code)
11 b. If other, please specify	(Text)	
12. How satisfied are you with how forests are managed in this village?	1=Very satisfied 2=Satisfied 3=Neutral 4=Dissatisfied 5=Very dissatisfied 999=Prefer not to respond	(Code)
11.3 In the past 12 months, were there any meetings held about forest use, management, disputes or resolutions of disputes held in your village? <i>If not 0, skip to J8</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
1.4 How many forestry-related meetings were held?		
15. How often did you attend meetings about forest use, management, disputes or resolution of disputes? <i>If 15=5, skip to 17</i>	1=Always or nearly every time one was held 2=Often 3=A few times 4=Once or twice 5=Never 888=Don't know 999=Prefer not to respond	(Code)

16. Why did you not attend these meetings?	1=Not interested 2=Feel they are not useful 3=Was no informed/did not know about the meeting 4=Busy working/traveling 5=Was not invited to the meeting 6=Meeting only for village leaders/elders 7=Meeting only for men in the village 97=Other, please specify 777=No meetings were held	(Code)
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[Showing ladder of power] This is a ladder of power from **1-10**, The people at the top (10) of the ladder make lots of important decisions and the people at the bottom (1) of the ladder do not have any say. Some people can also be at the middle, meaning, sometimes, they are high **up** on the ladder and sometimes they are low down on the ladder.

1.7 Where are the following people on this ladder when it comes to making decisions about **forest use and management** in this village?

a. Village members as a group	(Integer 1-10)	
b. Headman	(Integer 1-10)	
c. Women	(Integer 1-10)	
d. Chief	(Integer 1-10)	
e. Elders	(Integer 1-10)	
d. Youth	(Integer 1-10)	

Now I am going to read some statements about forest management in your village. Please tell me how much you agree or disagree.

18. The village leaders in charge of forest management are trusted and honest.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
19. The village leaders protect shared community forests from being taken or encroached upon.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree	(Code)

	5=Strongly disagree 888=Don't know 999=Prefer not to respond	
110. The village leaders allow fair access to the forest and forest products	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
111. The village leaders work hard to protect the forests and forest resources.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
112. The village leaders do not take bribes around forest issues, such as related to forest management, permits, fines or other forest use.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
113. Decision-making by village leaders about forest use and access is open and transparent..	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
114. I feel that rules about forest access and use are easy to understand.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
115. I feel that rules about forest access and use are well-known by most people in the community.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
116. I feel that rules about forest use are fair.	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
117. I feel that rules about forest access are fair.	1=Strongly agree	(Code)

	2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	
I.18 I feel that women are disadvantaged in decisions about forest use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
I.19 I feel that youth are disadvantaged in decisions about forest use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
I.20 I feel that poor households are disadvantaged in decisions about forest use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
I.21 I feel that elderly people are disadvantaged in decisions about forest use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
I.22. If I have a dispute about forest use and access, I feel confident that the local village governing bodies/institutions will enforce my rights to the forest. (enforce_rights)	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)

Now I would like to ask you some questions about various groups that are involved in managing forests in your area.

I.24 Are there any groups in your village or village area that organize activities related to the management of the forest? <i>If 0, skip to I27</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
I.25 Are you involved in a group that organizes activities related to the management of the forest (e.g., firefighting, patrolling, tourism, tree planting, etc.)  <i>If No, Skip to I27</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(code)
I.26. What type of activities do you do?  <i>Select all that apply</i>	1=Planting trees 2=Cutting down undesired/competing trees 3=Protecting certain desired trees in the forest to promote the natural regeneration of the species 4=Protecting areas of forest for particular environmental services, like water catchment 5=Protecting areas of forest for particular beliefs/spiritual services 6=Establishing rules around who can access and use specific forest products (e.g. honey, trees) 7=Extension/education about forest management 8=Enacted bylaws (eg no bush burning in the forest) 9=Mapping/inventory of forest resources 10=Patrolling the forest 11=Fighting forest fires 12=Engaging in forest-based income activities, such as a beekeeping group 13=Engaging in forest-based tourism activities, such as guiding 97=Other, please specify 888=Don't know 999=Prefer not to respond	(code)
I.27 Does your village have a local community institution or committee that helps manage the local forest(s)?  <i>If No, Skip to I39</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
I.28 Did you participate in electing the current leadership?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
I.29 Are you a leader of this group, which helps to manage local forests?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
I.30 Are any women leaders of this group?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
I.31 Are you a member of this group?	0=No	(Code)

		1=Yes 888=Don't know 999=Prefer not to respond	
	I.32 Do members of this group have to be landowners?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
	I.33 Are any members of this group women?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
	I.34 How satisfied are you with how this village committee/institution is managing the local forest(s)?	1=Very satisfied 2=Satisfied 3=Neutral 4=Dissatisfied 5=Very dissatisfied 999=Prefer not to respond	(Code)
	I.35 How satisfied are you with the village- or co-forest management rules in your village? (satisfy_villorgrules)	1=Very satisfied 2=Satisfied 3=Neutral 4=Dissatisfied 5=Very dissatisfied 999=Prefer not to respond	(Code)
	I.35 Does this village committee/institution collect fees or fines for forest use?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	
	I.37 How well are community- or co- forest management rules enforced in your village?	1=Very strong enforcement (violators are always punished) 2=Strong enforcement (violators are usually punished) 3=Sometimes strong/sometimes weak (sometimes violators are punished) 4=Weak enforcement (violators are rarely punished) 5=Very weak enforcement (Violators are never punished) 999=Prefer not to respond	(Code)

Please tell me how much you agree or disagree with the following statements			
	I.38 My household has good information about how forest management revenues and expenditures are handled by the committee/institution in my village (hhinform_revexp)	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	I.39. My household has sufficient knowledge about	1=Strongly agree	(Code)

forest management to participate in developing forest management rules to guide village- or co- forest management in my village (hhinform_devrules)	2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	
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## SECTION J. OVERALL FARM LAND QUESTIONS

Enumerator: Now I would like to ask about the FARMLAND that you YOURSELF are the PRIMARY DECISION MAKER FOR in the 2014/2015 agricultural season. This includes land rented-in, rented-out, and owned by you and/or your household.

J1. During this agricultural year (2014/2015), what is the total land area that you manage? <i>Include all fields the household owns, rents, or borrows.</i>	(Integer)	
J1b. Units	1=Lima 2=Acre 3=Hectare 4=Square meter 888=Don't know	(Code)
J2. What is the total number of fields that you manage? <i>A field is defined as a piece of land with distinct boundaries defined by land-use</i>	(Integer)	

J3. How many of the fields you manage were farmed for subsistence or cash crops during this agricultural year (2014/2015)? <i>Only consider land that is owned, rented in, or borrowed; not land that is rented out or lent to others</i>	(Integer)	
J4. How many of the fields you manage were used as pastures or other non-cropped uses, during this agricultural year (2014/2015)? <i>Only consider land that is owned, rented in, or borrowed, not land that is rented out or lent to others</i>	(Integer)	
J5. How many of the fields you manage did you leave fallow during this agricultural year (2014/2015)?  <i>Only consider land that is owned, rented in, or borrowed, not land that is rented out or lent to others</i>  <i>Enumerator hint: Fallow land is a piece of land that is normally used for agricultural purposes, but is left with no crops on it for one season or more, typically in order to help the land regenerate.</i>	(Integer)	
J6. On how many fields that you manage did you plant agroforestry trees on during this agricultural year (2014/2015)? <i>Agroforestry trees include musangu, glicidia, ububa, etc. Do not include pigeon peas or cowpeas.</i>	(Integer)	
J7. In the past 3 years, have you ever had land that you manage reallocated by village or chief authorities	1=No 2=Yes	(Code)



to be used {by another person, group or organization}?	888=Don't know 999=Prefer not to respond	
<i>If not 2, skip to Module K</i>		
J8. How many times in the past 3 years has land that you manage been reallocated?	(Integer)	
J9. Why was the land reallocated? <i>Select all that apply</i>	1=Given to another person/village in the village for agriculture 2= Give newcomers land 3=Give to an outside investor 97=Other, specify.	(Code)
J10. How much TOTAL land was reallocated?	(Integer)	
J10b. Units	1=Lima 2=Acre 3=Hectare 4=Square meter 888=Don't know	(Code)
J11. Were you compensated for losing access to land and resources?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
J12. If so how? <i>Ask if J11=1</i>	1=Given land elsewhere 2=Given money 3= Given in-kind payment 888=Don't know 999=Prefer not to respond	(Code)
J.12b Please describe the compensation you received. Please include any land given, a description of any in-kind payments, and the value of monetary compensation received.		
J13. Was the value of the compensation enough to cover the value of the land and resources lost? <i>Ask if J11=1</i>	1=Yes, a lot more 2=Yes, a little more 3=Exactly the same value 4=No, a little less 5=No, a lot less	(Code)
J.14 Do you believe that the value of compensation was fair? <i>Ask if J11=1</i>	1=Very fair 2=Fair 3=Neither fair nor unfair 4=Unfair 5=Very unfair 888- Don't know 999=Refused to answer	

## SECTION K. FIELD OVERVIEW

Now I would like to learn more about each of the fields that you yourself MANAGED in the 2014/2015 agricultural season. This includes land rented-in, borrowed, owned by you and/or your household. Let's start with a discussion of the largest field.

K.0 On how many fields are you the primary decision maker?	Integer
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Field	Field name	K1. What is the area of this field?		K2. What is the distance and walking time from your house to the field? <i>One way, from the main household</i>		K3. During this last agricultural season (2014-2015), did you farm this field, leave it fallow, or use it for pasture or some other non-agricultural use? (See code 113 below) <i>If 1, skip to K5 If 4, skip to K5</i>	K4. What are the two most important reasons why you chose to leave this field fallow? (See Code 114 below) <i>Probe and code</i>	K5 Does this field have a fence?  0=No 1=Yes 888=Don't know 999=Prefer not to respond
		Area of field	Unit 1=lima 2=acre 3=hectare 4=square meter	Distance Units 1=meters 2=kilometers	Walking time <i>In minutes</i>			
<b>Field</b>	<b>f_nickname</b>							
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

113-Field Purpose	114-Why Fallow	115-Crop Code		
1=Farmed this field 2=Left this field fallow 3=Left this field in improved fallow 4=Used this field as	1=Prevent soil erosion 2=Protect from floods 3=Improve soil quality 4=Improve crop yields 5=Strengthen claim to land	1=Local maize 2=Composite (pollenated) maize 3=Hybrid maize 4=Cassava 5=Sweet potato	11=Sorghum 12=Pearl millet (mchewere) 13=Bean 14=Soyabean 15=Pigeon Peas	20=Cabbage Tanaposi 21=Nkhwani 22=Therere/Okra 23=Tomato 24=Onion

pasture/other non-agricultural use	6=Raise market value of land for later sale 7=Strengthen ability to bequeathland to children 8=Raise value of land to use as collateral 777=No reason 97=Other, please specify	6=Irish potato 7=Groundnet 8=Ground bean (Nzama) 9=Rice 10=Finger millet (mawere)	16=Burley tobacco 17=Tobacco (other) 18=Cotton 19=Sugarcane	25=Peas 26=Trees or woodlot 27=Sunflower 97=Other, please specify
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Field	K.6 Is this field irrigated?  0=No 1=Yes 888=Don't know 999=Prefer not to respond	K.7 Have you planted basins on this field in the past 5 years?  0=No 1=Yes 888=Don't know 999=Prefer not to respond	K.8 Have you ripped this field in the past 5 years?  0=No 1=Yes 888=Don't know 999=Prefer not to respond	K.9. What was the <b>main crop</b> you planted on this field during this agricultural season (2014/2015)?  (See Code 115 below)
<b>FIELD</b>				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Now I'm going to ask you to think about the **2013 and 2014 harvest season that ended this past June**. Across all of the fields you **MANAGE**, please indicate the crops planted/harvested during the **2013/2014** agricultural season, and indicate amounts consumed, sold or given away (see code 115 above):

Crop	K10. Size area planted (Indicate Limas, Hectares, Acres, # basins)	K11 # bags harvested	K12. Size Bags (KG)	K13. # bags sold	K13b. Price / Bag	K14. # bags consumed (household)	K15. # bags given away

## SECTION L. TENURE STATUS

Field	Field name	L1. What is the tenure status of this field? 1=State land 2=Former customary land converted to state land 3=Customary 97=Other, please specify 888=Don't know 999=Prefer not to answer	L2. Do you have any kind of paper documentation for this field? 0=No 1=Yes 888=Don't know 999=Prefer not to respond  <i>If not 2, skip to L5</i>	L3. What type of documentation do you have for this field?  <i>See code 118 below</i>	L4 Who's names appear on the document? <i>Select all that apply</i> 1=Household head 2=Spouse 3=Children 4=Parents of head or spouse 5=Entire community/headman /chief 6= Previous owner 97=Other	L5 Would you like to have paper documentation for this field?  0=No 1=Yes 888=Don't know 999=Prefer not to respond  <i>If No, skip to L8</i>	L6 Why would you like to have paper documentation for this field?  <i>Ask if L5=1</i>  <i>Probe and code, select all that apply</i> <i>See codes 320 below</i>
<b>FIELD</b>	<b>f_nickname</b>						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Field	L.7 Would you be willing to pay money for paper documentation for this field? <i>Ask if L5=1</i>  0=No 1=Yes 888=Don't know 999=Prefer not to respond	L.7b About how much would you be willing to pay? In ZMK  <i>Ask if L5=1 and L7=1</i>	L.8 Why would you not like to have paper documentation for this field?  <i>Ask if L5=0</i>  <i>Probe and code, select all that apply</i>  <i>(See codes 321 below)</i>	L9. In the next 3 years, how likely do you think it is that other households within your village may try to cross-over your boundaries (step on your side) and take or use some of this field?  <i>(See Code 119 Below)</i>	L10. In the next 3 years, how likely do you think it is that elites/big people from outside this chiefdom may take this field without your permission/ agreement?  <i>(See Code 119 Below)</i>	L11. In the next 3 years, how likely do you think it is that people from a neighboring community with encroach/cross-over to use this field?  <i>(See Code 119 Below)</i>
<b>FIELD</b>						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

<b>I 18–Documentation Type</b>	<b>I 19–Likelihood scale</b>	<b>Paper doc – why- 320</b>	<b>Paper doc – why not - 321</b>
1=Customary land certificate 2=State land lease/title—14 year lease 3=State land lease/title—99 year lease 4=Letter of consent not yet registered with the Ministry of Lands 5=Other documentation	1=Impossible/would never happen 2=Highly unlikely 3=Unsure/I don't know 4=Likely 5=Very Likely 6=Happening right now 999=Prefer not to respond	1=Reduce likelihood of losing my land 2=Protects investments I have made on my land 3=Strengthens the ability for my children to inherit the land 4=Helps me obtain access to credit 5=Proof that I own the land 6=Just to have it 7=Because the headman/chief/government will make me get it 8=To reduce disputes    97= Other	1=Not necessary, my land is secure 2=Don't want to pay taxes/fees 3=Will make it easier to have my land reallocated 4= Will increase disputes 5=Have not had it before, not how we do things 6=I don't have any information about it 7=Just don't want 8=Not my land    97=Other

<p>L12. In the next 3 years, how likely do you think it is that the chief will give this field up for investment purposes?</p> <p>(See Code 119 Below)</p>	<p>L13. In the next 3 years, how likely do you think it is that the village headman will re-allocate some or all of this field to another household or for other purposes:</p> <p>(See Code 119 Below)</p>	<p>L14. In the next 1-3 years, how likely is it that someone from within your extended family will take over the use of this field:</p> <p>(See Code 119 Below)</p>	<p>L15. How many seasons could you let this field lie fallow without being worried about the field being reallocated to another household?</p> <p><i>If they do not think it will ever be reallocated, enter 777</i></p>	<p>L16. Have you experienced any land disputes relating to this field over the past 3 years?</p> <p>0=No 1=Yes 888=Don't know 999=Prefer not to respond</p>	<p>L17. Did any of these disputes lead to violence or the destruction of property?</p> <p><i>Ask if L16=1</i></p>

L.18 Does anyone outside of your household make decisions about how you manage your fields? (For example, crops that you can plant or what to do with surplus crops) <i>If 0, skip to L20</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond
L.19 Who makes decisions about your fields?	1=Family member outside the household 2=Non-related village member 3=Headman/Headman's Induna 4=Village elders 5=Other village committee 6=Chief 7=Government official 97=Other
L.19b Other, specify	

L.20 Thinking about disputes over the last 3 years across all of your fields, can you please tell me how many disputes you have experienced about each of the following topics:	
a. Boundaries	
b. Inheritance	
c. Livestock grazing	
d. Land allocation	
e. Renting land	
f. Tree cutting/ownership	
g. Fire/burning	
h. Fencing	
i. All other conflict types	

<b>SURVEY EXPERIMENT 2: Version I</b>		
In the last year, how many of the following activities did you participate in? I do not want you to tell me the names of the activities you participated in, only the total number of activities. Tell us HOW MANY, NOT which ones.	Activity 1= Collecting fuelwood Activity 2= Harvesting mushrooms Activity 3= Conservation farming Activity 4= Selling horses	(Integer)

## SURVEY EXPERIMENT 2: Version 2

<p>In the last year, how many of the following activities did you participate in? I do not want you to tell me the names of the activities you participated in, only the total number of activities. Tell us HOW MANY, NOT which ones.</p>	<p>Activity 1= Collecting fuelwood Activity 2= Harvesting mushrooms Activity 3= Conservation farming Activity 4= Selling horses Activity 5= Charcoaling</p>	(Integer)
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## SECTION M: FARMLAND GOVERNANCE

Now I am going to ask you some questions about decision-making about forest-related issues in your village.

	<p>M1. Does your village have a Village Land Committee?</p>	<p>0=No 1=Yes 888=Don't know 999=Prefer not to respond</p>	
	<p>M2. In your village, what person or group is the most important decision maker about the land that your village uses?</p>	<p>1=Headman 2=Headman's Induna 3=Chief 4= Chief's Induna 5=Council of Elders 6=Village Land Committee 7=Local government 8=Department of agriculture/ extension officers 9=Most or all villagers together 10=A local or national NGO 97=Other, please specify</p>	(Code)
	<p>M2b. If other, please specify</p>	(Text)	
	<p>M3. How satisfied are you with how your village leaders manage land in this village?</p>	<p>1=Very satisfied 2=Satisfied 3=Neutral 4=Dissatisfied 5=Very dissatisfied 999=Prefer not to respond</p>	(Code)
	<p>M4. In the past 12 months, were there any meetings held about land use, management, disputes or resolutions of disputes held in your village? <i>If not 0, skip to N9</i></p>	<p>0=No 1=Yes 888=Don't know 999=Prefer not to respond</p>	
	<p>M5. How many land-related meetings were held?</p>		
	<p>M6. How often did you attend meetings about land use, management, disputes or resolution of disputes?</p>	<p>1=Always or nearly every time one was held 2=Often</p>	(Code)



		3=A few times 4=Once or twice 5=Never 888=Don't know 999=Prefer not to respond	
	M7. Why did you not attend these meetings? ( <b>forest_no participate</b> ) <i>Probe and code.</i>  Ask If M5=5	1=Not interested 2=Feel they are not useful 3=Was no informed/did not know about the meeting 4=Busy working/traveling 5=Was not invited to the meeting 6=Meeting only for village leaders/elders 7=Meeting only for men in the village 97=Other, please specify 777=No meetings were held	(Code)
	M7b. If other, please specify	(Text)	

[Showing ladder of power] This is a ladder of power from **1-10**, The people at the top (10) of the ladder make lots of important decisions and the people at the bottom (1) of the ladder do not have any say. Some people can also be at the middle, meaning, sometimes, they are high **up** on the ladder and sometime they are low down on the ladder.

M.8. Where are the following people on this ladder when it comes to making decisions about **land use and management** in this village?

a. Village members as a group	(Integer 1-10)	
b. Headman	(Integer 1-10)	
c. Women	(Integer 1-10)	
d. Chief	(Integer 1-10)	
e. Elders	(Integer 1-10)	
d. Youth	(Integer 1-10)	

Now I am going to read some statements about forest management in your village. Please tell me how much you agree or disagree.

	M.9 I feel that village leaders allocate and fairly across households	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M.10 I feel that land related decision making by village leaders is transparent	1=Strongly agree 2=Agree 3=Neither agree nor disagree	(Code)

		4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	
	M.11 I feel that rules about land use and management are fair	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M.12 I feel that rules about land use and management are easy to understand	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M.13 I feel that rules about land use and management are well-known by most people in the village	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M14. I feel that women are disadvantaged in decisions about land use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M.15 I feel that youth are disadvantaged in decisions about land use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)
	M16. I feel that poor households are disadvantaged in decisions about land use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know	(Code)

		999=Prefer not to respond	
	M17. I feel that elderly households are disadvantaged in decisions about land use and access	1=Strongly agree 2=Agree 3=Neither agree nor disagree 4=Disagree 5=Strongly disagree 888=Don't know 999=Prefer not to respond	(Code)

## SECTION N: INCOME

	N.1 Thinking over the past year, how much TOTAL income did your household earn? In ZMK	1= 0-2000 2=2001-5000 3= 5,001-10,000 4= 10,001-15,000 5= Greater than 15,000 888=Don't know 999=Prefer not to respond	
	N.2 Thinking over the past year, how much income did <b>you</b> receive from work on a small or large-holder farm?	(integer)	
	N.3 Thinking over the past year, how much income did <b>you</b> receive from a salaried job?	(integer)	
	N.4 Thinking over the past year, how much income did <b>you</b> receive from work in the tourism industry?	(integer)	
	N5. Thinking over the past year, how much income did <b>you</b> receive from petty trade? (inc_pettytrade)	(integer)	
	N6. Thinking over the past year, how much income did <b>you</b> receive from selling livestock or livestock products? (sale of skins/hides/milk/eggs) (inc_livestock)	(integer)	
	N7. Thinking over the past year, how much income did <b>you</b> receive from sale of forest-based products (including for example, firewood, charcoal, timber, honey, or other forest products such as carbon payments) (inc_sellfrstprod)	(integer)	
	N8. Thinking over the past year, how much income did <b>you</b> receive from forest-based activities, such as patrolling, guiding, eco-tourism activities, forest products sales, or carbon payments (inc_frstactivity)	(integer)	
	N9. Thinking over the past year, how much income did <b>you</b> receive from remittances or pensions? (inc_other)	(integer)	(code)

N10. Thinking over the past year, did YOU receive any cash, in-kind or labor for renting out one or more of your fields to another household?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(code)
N11. How much cash payment did <b>you</b> receive for renting out your fields over the past year?	(integer)	
N12. What is the estimated cash value of in-kind items <b>you</b> received for renting your fields over the past year?	(integer)	
N13. Did you yourself personally take out any formal loans from a bank or micro-credit institution in the past year? <i>If 0, 888, 999, Skip to N15</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(code)
N14. Did you have to provide any documentation of your land rights to secure the loan? <i>If 0, 888, 999, Skip to N15</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(code)
N14b. What kind of documentation was required?	1= Customary land certificate 2= State land lease/title – 14 year lease 3= State land lease/title- 99 year lease 4= Letter of consent not yet registered with the Ministry of Lands 97= Other, please specify 888=Don't know 999=Prefer not to respond	
N15. Have you personally participated in any benefit sharing arrangements with a private company, the government, or an NGO related to the use of land or forest resources in your village?  <i>If 0, Skip to Section O.</i>	0=No 1=Yes 888=Don't know	(code)
N15b. If yes, how would you rate your satisfaction with those arrangements?	1= Very satisfied 2= Satisfied 3= Neutral 4= Dissatisfied 5= Very dissatisfied	(code)
N16. If you are not fully satisfied, why? <i>Probe and code</i> <i>Ask if N15b=3, 4, 5</i>	1= The level of benefits for our village/district is inadequate 2= The level of benefits transferred for individual households is inadequate 3= The terms for transferring the benefits are not clear 4= The management of the benefits is not transparent/fair) 97= Other, specify	(code)
N17. What improvements, if any, would you like to see in these arrangements? <i>Probe and code</i>	1= I would like to see more in-kind benefits at the community level, such as schools/hospitals 2= I would like to see more cash transfers at the community level 3= I would like to see more in-kind benefits at the household level, such as access to farm or forest	(code)

	product markets and/or farm inputs (including finance) 4= I would like to see more cash transfers to individual households 5= I would like to see more transparency in the use/management of benefits at the village level) 97=Other, specify	
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## SECTION O. LIVESTOCK ASSETS

Now I would like to ask you about the number of livestock that you **YOURSELF** currently own.

O1. How many cattle do you own?	(integer)
O2. How many oxen do you have?	(integer)
O3. How many donkeys do you own?	(integer)
O4. How many chickens do you own?	(integer)
O5. How many goats do you own?	(integer)
O6. How many pigs do you own?	(integer)
O7. How many rabbits do you own?	(integer)

## SECTION P. HOUSEHOLD AND AGRICULTURAL ASSETS

Now I would like to ask you about the number of household and agricultural assets that you **YOURSELF** currently own. Include assets that are currently not working. (Count all assets, even if they do not work)

item_id	How many of these items- (item)	a. Do you currently own?
P1	Mobile Phone	
P2	Radio	
P3	TV	
P4	Cars, Vans, Pick-up Trucks	
P5	Motorcycle	
P6	Bicycle	
P7	Cook stove	
P8	Refrigerator	
P9	Water pump/treadle pump	
P10	Solar panel	
P11	Pick axe	
P12	Hand Hoe	
P13	Wheel barrow	
P14	Drip irrigation set	
P15	Sprinklers	
P16	Efficient wood burning stove	
P17	Pressure cooker	

P18	Canoe	
P19	Sewing machines	

P20	How many meals did you eat meat in the last 7 days? <i>Enumerator: Please define meat as beef, chicken, fish, pork, and bush meat. Do not include caterpillars, insects, etc.</i> <b>(meals)</b>	(integer)
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P21. Please indicate any months of the year that you yourself experienced “hunger” and did not have enough to eat:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Please tell me how much your household spent on the following items in the past month in ZMK

	P22. Food (purchased)	(Integer)		
	P23. Domestic energy	(Integer)		
	P24. Does your household have access to clean water?	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)	

## SECTION Q: ENERGY SOURCES AND UTILIZATION

Q1. Does your household use charcoal? <i>If 0, skip to Q.3</i>	0=No 1=Yes	(Code)
Q2. What is the quantity of charcoal your household uses per month, on average?	(integer)	
Q2b. Unit	1=packet 2=10kg bag 3=25kg bag 4=50kg bag 5=kg only	(Code)
Q3. What is the quantity of fuel wood your household uses per month, on average?	(integer)	
Q3b. Unit	1=Bundle 2=KG only	(Code)
Q4. How much time do you spend gathering fuelwood? <i>In hours</i>	(integer)	
Q4b. Unit	1=day 2=week 3=month	(Code)

Fuel source	Q6. Are you	Q7. What is the main reason you are not currently
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	currently using <fuel>? 0=No 1=Yes  <i>If 1, skip P8 and go          to next fuel source</i>	using <fuel>? 1=Too expensive 2=Not available 3=Don't know how to use it 4=More time-consuming 5=Because of the smell  6=Just don't want to 7=No reason to use an alternative – there is plenty of wood/charcoal 8=Cultural reasons 9=Health or safety reasons 10=Use something else 97=Other, please specify
b. Diesel		
c. Manure		
d. Electricity		
e. Gas		
f. Kerosene/ paraffin		
g. Solar		
h. Energy efficient cookstove		

## SECTION R. CLIMATE CHANGE ADAPTATION

We would like to learn about shocks from climate change and weather extremes that affected you personally in the past 5 years.

R1. In the past 3 years, has your household been affected by a <b>DROUGHT</b> ? <i>If 0, skip to R9</i>	1=No 2=Yes 888=Don't know 999=Prefer not to respond	(Code)
R2. Thinking of the worst drought, how well or poorly was your household able to respond to the drought?	1=Very well 2=Somewhat well 3=Neutral response 4=Somewhat poorly 5=Very poorly 888=Don't know 999=Prefer not to respond	(Code)
R3. What was the result of the drought on your household's livelihood? <i>Select all that apply</i>	1=Reduced crop yield 2=Crop failure 3=Reduced HH consumption 4=Loss of assets 5=Loss of income 6=Livestock sickness 7=Livestock death 8=Human sickness 9=Human death 10=Pests or diseases that affected the crops before they were harvested 11=Pests or diseases that led to crop/storage losses 12=Pests or diseases that affected livestock 97=Other, please specify	(Code)

	888=Don't know 999=Prefer not to respond	
R4. Thinking of the worst <b>DROUGHT</b> that your household experienced during 2012-2014, what adjustments/adaptations did your household make during the drought? <i>Select all that apply</i>	(SEE CODE 120)	(Code)
R4b. If other, please specify	(Text)	
R5. Are there any changes you wanted to make but were unable to make? <i>If none, Skip to R7</i> <i>Select all that apply</i>	(SEE CODE 120)	(Code)
R5b. If other, please specify	(Text)	
R6. If so, why did you not make those changes? <i>Select all that apply</i>	1=Lack of money 2=Lack of information 3=Shortage of labor 4=Shortage of Land 97=Other, please specify	(Code)
R6b. If other, please specify	(Text)	
R7. How did your household cope with this shock? <i>Select all that apply</i>	1=Harvest more forest products 2=Harvest more wild foods not found in the forest 3=Harvest more agricultural products 4=Spend cash savings 5=Sell assets (Land, livestock, etc.) 6=Do extra casual labor 7=Assistance from friends or relatives 8=Assistance from NGO, community organization, religious organization, etc 9=Get loan from money lender, credit associations, etc 10=Reduce household spending 11=Did nothing in particular 12=Looked for food elsewhere 13=Did some petty trade/small business 14=Used less water for household use 15=Change when you plant or harvest 97=Other, please specify	(Code)
R7b. If other, please specify	(Text)	

  

R8 In the past 3 years, has your household been affected by a <b>TOO MUCH RAIN/FLOODS</b> ? <i>If 0, skip to R17</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
R9. Thinking of the worst <b>RAIN/FLOODS</b> your household experienced during 2012-2014, how well or poorly was your household able to respond to the <b>RAIN/FLOODS</b> ?	1=Very well 2=Somewhat well 3=Neutral response 4=Somewhat poorly 5=Very poorly 888=Don't know 999=Prefer not to respond	(Code)



<p>R10. What was the result of the <b>RAIN/FLOODS</b> on your household's livelihoods?  <i>Select all that apply</i></p>	<p>1=Reduced crop yield  2=Crop failure  3=Reduced HH consumption  4=Loss of assets  5=Loss of income  6=Livestock sickness  7=Livestock death  8=Human sickness  9=Human death</p>	<p>10=Pests or diseases that affected the crops before they were harvested  11=Pests or diseases that led to crop/storage losses  12=Pests or diseases that affected livestock  97=Other, please specify  888=Don't know  999=Prefer not to respond</p>	<p>(Code)</p>
<p>R11. Thinking of the worst <b>RAIN/FLOODS</b> that your household experienced during 2012 - 2014, what adjustments/adaptations did your household make during the <b>RAIN/FLOODS</b>?  <i>Select all that apply</i></p>	<p>(SEE CODE 120)</p>		<p>(Code)</p>
<p>R11b. If other, please specify</p>	<p>(Text)</p>		
<p>R12. Are there any changes you wanted to make but were unable to make?  <i>Select all that apply</i>   <i>If none, Skip to R14</i></p>	<p>(SEE CODE 120)</p>		<p>(Code)</p>
<p>R12b. If other, please specify</p>	<p>(Text)</p>		
<p>R13. If so, why did you not make those changes?  <i>Select all that apply</i></p>	<p>1=Lack of money  2=Lack of information  3=Shortage of labor  4=Shortage of Land  97=Other, please specify</p>		<p>(Code)</p>
<p>R13b. If other, please specify</p>	<p>(Text)</p>		
<p>R14. How did your household cope with this shock?  <i>Select all that apply</i></p>	<p>1=Harvest more forest products  2=Harvest more wild foods not found in the forest  3=Harvest more agricultural products  4=Spend cash savings  5=Sell assets (Land, livestock, etc.)  6=Do extra casual labor  7=Assistance from friends or relatives  8=Assistance from NGO, community organization, religious organization, etc  9=Get loan from money lender, credit associations, etc  10=Reduce household spending  11=Did nothing in particular  12=Looked for food elsewhere  13=Did some petty trade/small business  14=Used less water for household use  15=Change when you plant or harvest  97=Other, please specify</p>		<p>(Code)</p>
<p>R14. If other, please specify</p>	<p>(Text)</p>		

R15. In the past 3 years, has your household been affected by <b>ERRATIC RAINS</b> ? <i>If 0, skip to Section S</i>	0=No 1=Yes 888=Don't know 999=Prefer not to respond	(Code)
R16. Thinking of the worst <b>ERRATIC RAINS</b> your household experienced during 2012-2014, how well or poorly was your household able to respond to the <b>ERRATIC RAINS</b> ?	1=Very well 2=Somewhat well 3=Neutral response 4=Somewhat poorly 5=Very poorly 888=Don't know 999=Prefer not to respond	(Code)
R17. What was the result of the <b>ERRATIC RAINS</b> on your HH? <i>Select all that apply</i>	1=Reduced crop yield 2=Crop failure 3=Reduced HH consumption 4=Loss of assets 5=Loss of income 6=Livestock sickness 7=Livestock death 8=Human sickness 9=Human death 10=Pests or diseases that affected the crops before they were harvested 11=Pests or diseases that led to crop/storage losses 12=Pests or diseases that affected livestock 97=Other, please specify 888=Don't know 999=Prefer not to respond	(Code)
R18. Thinking of the worst <b>ERRATIC RAINS</b> that your household experienced, what adjustments/adaptations did your household make during the <b>ERRATIC RAINS</b> ? <i>Select all that apply</i>	(SEE CODE I20)	(Code)
R18b. If other, please specify	(Text)	
R19. Are there any changes you wanted to make but were unable to make? <i>If none, Skip to R22</i> <i>Select all that apply</i>	(SEE CODE I20)	(Code)
R19b. If other, please specify	(Text)	
R20. If so, why did you not make those changes? <i>Select all that apply</i>	1=Lack of money 2=Lack of information 3=Shortage of labor 4=Shortage of Land 97=Other, please specify	(Code)
R20b. If other, please specify	(Text)	
R21. How did your household cope with this shock? <i>Select all that apply</i>	1=Harvest more forest products 2=Harvest more wild foods not found in the forest 3=Harvest more agricultural products 4=Spend cash savings 5=Sell assets (Land, livestock, etc.) 6=Do extra casual labor 7=Assistance from friends or relatives 8=Assistance from NGO, community organization, religious organization, etc	(Code)

	9=Get loan from money lender, credit associations, etc 10=Reduce household spending 11=Did nothing in particular 12=Looked for food elsewhere 13=Did some petty trade/small business 14=Used less water for household use 15=Change when you plant or harvest 97=Other, please specify	
R21b. If other, please specify	(Text)	

<b>I 20–Adjustments/adaptations made</b>	
1=Construction of wells/borewells/deepening of wells 2=Invest in irrigation practices that reduce water use (drip irrigation/sprinklers) 3=Build a water harvesting scheme 4=Soil conservation techniques (farm bunds, farm ponds) 5=Add manure or mulch to increase soil moisture 6=Crop water budgeting 7=Change crop variety/diversification 8=Shift to market or cash crops 9=Plant drought resistant crops 10=Plant earlier/later	11=Agroforestry 12=Consult weather forecasts 13=Change from crop to livestock/mixed farming 14=Reduce number of livestock 15=Buy crop insurance 16=Borrow money (e.g. from bank or family) 17=Invest in bank seed/grain bank at community level 18=Migrate to urban area/find off farm job 19=Lease your land 20=Spend more money on children's education 97=Other, please specify

## SECTION 5. CONCLUSION

Thank you for your participation in this survey.

S1. Enumerator: Please select the correct survey status from the list	1=Complete 2=Incomplete, come back 3=Incomplete, cannot finish 4=Prefer not to participate 97=Other, please specify	(Code)
S2. On a scale of 1 to 5, 5 being very reliable, how reliable was the respondent?	(Integer)	
S3. Was anyone else present during any part of the interview? (young children do not apply) Select all that apply	1=No 2=Husband 3=Other adult family member 4=Village leader 5=Other village member	
S4. Any additional comments?	(Text)	