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# Perceived climate change impacts and adaptation responses in ten African mountain regions

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In the format provided by the authors and unedited

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## Supplementary material A. Semi-structured questionnaires.

Note that focus-group discussions were used to create the list of wealth items (question 8, see supplementary material B) and amend questions 10-13 to those relevant to each study area.

1. Village name
2. Household number
3. Household composition (adults M and F)
4. Owner of house (Y/N)
5. Owner of farm (Y/N)
6. Farm size (ha)
7. List all the livestock your household has
8. Does your household have any of these items?
9. Did you complete primary school? (Y/N)
10. Compared to when you were a teenager and started farming, which of the following climatic changes have you noticed in your village? Increased temperatures (dry season)/ Reduced rainfall (long rains)/Late start long rains/ More dry spells (long rains)/ More showers (dry season)/ More extreme floods/ More extreme droughts/ Fewer foggy days (rainy season)/ Less frost/ Increased wind strength (rainy season)/ Fewer hailstorms
11. Compared to when you were a teenager and started farming, which of the following impacts changes have you noticed in your village? Reduced stream flow (rainy season)/ More landslides (rainy season)/ More soil erosion (rainy season)/ Lower yields (main staple)/ Lower yields (coffee)/ Increased pests/diseases (main staple) / Increased pests/diseases (coffee) / Cows produce less milk / Livestock have more diseases / People are less healthy
12. Which of the following on-farm adaptation strategies have you used? Change to improved variety (main crop)/ Changed planting date / Sow seeds twice (if they die) / Increased use soil conservation (ditch, terrace, mulching)/ Increased use fertiliser / Increased use pesticide / Changed farm location (near stream) / Increased irrigation / Increased farm size / Change to improved variety (coffee) / Increase shade (coffee) / Increase inputs (coffee)/ Change to new crop
13. Which of the following other adaptation strategies have you used? Increased use veterinary care / Increased use feed (cows) / Diversify: labour / Diversify: started rearing animals / Diversify: vegetable/fruit production / Diversify: sell firewood / Diversify: business / Diversify: timber / Diversify: mining.
14. How you determine when to sow your seeds? You might gather information from... Tv or radio / extension services / elders or traditional authorities / your own personal experience / other (explain)
15. Have you heard the concept 'Climate Change'? If yes, can you explain what it means and who explained it to you?

## Supplementary material B. Wealth items

Note that focus-group discussions were used to create a list of 10 wealth items relevant to each study area. BAM: Bamboutos Mountains (Cameroon), ITO: Itombwe Mountains (DRC), KIG: Kigezi Highlands (Uganda), NYU: Nyungwe (Rwanda), KIB: Kibira (Burundi), BAL: Bale Mountains (Ethiopia), KEN: Mount Kenya (Kenya), ABE: Aberdare Range (Kenya), KIL: Mount Kilimanjaro (Tanzania), UDZ: Udzungwa Mountains (Tanzania).

	KIB	NYU	BAL	BAM	KIG	KEN	ABE	ITO	KIL	UDZ
motorbike	x	x	x	x	x	x	x		x	x
high-quality house	x	x	x	x	x	x		x	x	x
land (given number hectares)	x	x	x	x	x	x	x		x	
TV		x	x	x	x	x	x		x	x
cows (given number)	x	x	x			x	x	x	x	
radio	x	x	x		x			x	x	x
car		x		x	x	x	x		x	x
shop	x	x			x					x
solar panel	x				x	x		x		
pigs (given number)	x			x	x			x		
android phone		x		x		x	x		x	
homeowner	x			x						x
mobile phone			x					x		
Eucalyptus plantation	x				x					
children (given number)			x						x	
grinder				x						x
bank account				x				x		
pesticide spraying pump						x	x			
plastic chairs						x	x			
tractor									x	x
irrigation			x							x
extra house to rent		x								
donkey (given number)			x							
fridge							x			
gas cooker							x			
children going to school								x		
torch								x		
goat (given number)								x		