**Supplementary information for the manuscript “*Activity-specific mobility of adults in a rural region of western Kenya”***

Supplementary table 1: Relationships between travelling time and demographic characteristics of the surveyed population for different types of activity.

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| Activity type | Explanatory variable | Estimate | p-value |
| Livestock activity | Travelling time | Gender: male [Ref = female] | 1.43 [0.75, 2.86] | 0.287  |
| Occupation: non-farmer [Ref = farmer] | 1.50 [0.79, 2.81] | 0.215  |
| Household wealth | 2.25 [0.74, 6.84] | 0.162  |
| Age | 1.01 [0.99, 1.03] | 0.555  |
| Health facility | Travelling time | Gender: male [Ref = female] | 0.80 [0.60, 1.09] | 0.153  |
| Occupation: non-farmer [Ref = farmer] | 0.90 [0.64, 1.29] | 0.559  |
| Household wealth | 0.94 [0.55, 1.60] | 0.824  |
| Age | 1.00 [0.99, 1.01] | 0.655  |
| Place of worship | Travelling time | Gender: male [Ref = female] | 0.74 [0.51, 1.10] | 0.130  |
| Occupation: non-farmer [Ref = farmer] | 0.80 [0.52, 1.20] | 0.276  |
| Household wealth | 0.83 [0.47, 1.48] | 0.538  |
| Age | 1.00 [0.99, 1.01] | 0.940  |
| Market | Travelling time | Gender: male [Ref = female] | 0.94 [0.45, 1.96] | 0.877  |
| Occupation: non-farmer [Ref = farmer] | 0.58 [0.28, 1.20] | 0.148  |
| Household wealth | 1.01 [0.40, 2.55] | 0.989  |
| Age | 0.99 [0.97, 1.02] | 0.574  |
| Household visits | Travelling time | Gender: male [Ref = female] | 1.14 [0.83, 1.58] | 0.423  |
| Occupation: non-farmer [Ref = farmer] | 0.81 [0.59, 1.11] | 0.198  |
| Household wealth | 0.96 [0.64, 1.43] | 0.826  |
| Age | 1.01 [1.00, 1.02] | 0.074  |
| Water activity | Travelling time | Gender: male [Ref = female] | 2.52 [0.92, 6.65] | 0.075  |
| Occupation: non-farmer [Ref = farmer] | 0.86 [0.34, 2.13] | 0.755  |
| Household wealth | 0.69 [0.22, 2.17] | 0.535  |
| Age | 1.00 [0.97, 1.03] | 0.976  |

**Household and individual surveys**

**Individual questions**

* Sublocation
* Household ID
* Collect the GPS coordinates of this household.
* Language of administration
* Name of respondent
* Age of respondent
* Gender of respondent
* Tribal origin
* Principal religion
* Marital status
* Level of education reached
* Years lived in current village
* Major occupation

**Individual movement questions**

Do you regularly visit any of these places?

* School
* Place of work (livestock-related)
* Place of work (other)
* Health facility
* Place of worship
* Market - animal
* Market - other
* Shop
* Another household
* Less regular, e.g. annual visits

For each place:

* Does the place have a name?
* How often do you typically go there?
* How do you usually travel there?
* How much does it cost?
* How long does it take you to get there (minutes)?
* How long do you typically spend there (hours)?
* Do any children go with you?
* How many?

**Household questions**

* How many members does this household have?
* Gender of household member
* Age of household member
* What is the highest school grade that the female head/spouse has completed?
* What is the main occupation of the male head/spouse?
* How many habitable rooms does this household occupy in its main dwelling?
* What is the floor of the main dwelling predominantly made of?
* What is your source of water for cooking?
* What is your source of water for drinking?
* What is the main source of lighting fuel for the household?
* Is there a latrine in the household?
* What type(s)?
* Is there evidence of scrounging by animals around the latrine?
* Transport: does your household own any of the following?
* Does your household own any irons (charcoal or electric?)
* How many mosquito nets does your household own?
* How many towels does your household own?
* How many frying pans does your household own?
* Do you grow crops?
* Why do you grow crops?
* How do you get to your crops?
* How much does it cost?
* Approximately how long does it take you to get to your crops in minutes?
* Where does the majority of your household access medical facilities?
* How do you normally travel to the medical facility?
* How long does it normally take to get there (minutes)?

**Household livestock questions**

* Does this homestead keep any animals?
* Where do you access veterinary services?
* Have you used the veterinary services in the last 12 months?
* Does this homestead keep cattle?
* Cattle questions
* How many males?
* How many females?
* Why do you keep cattle?
* Do you ever buy cattle or have you received cattle as a gift from outside the household?
* How long ago did you last buy/receive new cattle?
* Where do you usually buy/receive new cattle from?
* Do your cows/bulls engage in communal breeding?
* Are cattle herded with goats or sheep?
* How do you graze/feed your cattle?
* What is the water source for your cattle?
* Do you use medicine to prevent or treat disease in your cattle?
* Where do you get medicine for your cattle from?
* Have any cattle in the home been given any vaccinations?
* Do you know which vaccines have been given?
* Do you always pasteurize your milk before consumption?

**Cattle questions**

* Are you involved in feeding the cattle?
* Are you involved in milking the cattle?
* Are you involved in taking cattle to water?
* Are you involved in birthing the cattle?
* Have you ever experienced abortion in your herd?
* When was the last abortion?
* Do you ever handle cattle abortion material?
* What do you do with the aborted material?
* Are you involved in handling cattle manure?
* Do you ever buy cattle from a market?
* Do you ever take the cattle to a market?
* Are you involved in cattle skinning?
* Are you involved in cattle burial?
	+ For each of the above:
	+ How often do you do this activity?
	+ Do you have to travel outside the household to do this activity?
	+ What type of place do you go to for this activity?
	+ If yes, how do you travel there?
	+ How much does it cost?
	+ How long does it take you to travel there (minutes)?
	+ How long do you spend there (hours)?
	+ How many children go with you?
	+ What is the name of the place?

**Pig questions**

* Does this homestead keep pigs?
* How many piglets?
* How many adult males?
* How many adult females?
* Why do you keep pigs?
* Do you buy pigs from a market?
* What is the name of the market?
* How do you normally travel to the market?
* How much does it cost?
* How long does it normally take to get there (minutes)?
* How do you house the pigs?
* How do you feed the pigs?
* Are pigs fed waste?
* If pigs are fed waste, is it cooked prior to feeding it to the pig?
* Are pigs housed during any season?
* What is the flooring in the pig housing?
* Do you use medicine to prevent or treat disease in your pigs?
* Where do you purchase medicine for your pigs?
* Have the pigs on the homestead been vaccinated against anything?
* Does the participant know which vaccine was given to the pigs?
* Name/purpose of vaccine
* Are there any significant problems with your pigs?
* Are you involved in feeding the pigs?
* Are you involved in taking pigs to water?
* Are you involved in birthing the pigs?
* Are you involved in handling pig manure?
* Are you involved in taking pigs to market?
* Are you involved in pig slaughter?
* Are your pigs inspected at slaughter?
* Who inspects the meat for cysts?
* If cysts are found, what do you do with the meat?
* Are you involved in pig burial?
* For each of the activities above:
	+ How often do you do this activity?
	+ Do you have to travel outside the household to do this activity?
	+ What type of place do you go to for this activity?
	+ If yes, how do you travel there?
	+ How much does it cost?
	+ How long does it take you to travel there (minutes)?
	+ How long do you spend there (hours)?
	+ How many children go with you?
	+ What is the name of the place?

**Sheep/goat questions**

* Does this homestead keep sheep/goats?
* How many sheep/goats?
* Do you buy sheep/goats from a market?
* What is the name of the market?
* How do you normally travel to the market?
* How much does it cost?
* How long does it normally take to get there (minutes)?
* How do you house the sheep/goats?
* How do you graze/feed your sheep/goats?
* Are you involved in feeding the sheep/goats?
* Are you involved in milking the sheep/goats?
* Are you involved in taking sheep/goats to water?
* Are you involved in birthing the sheep/goats?
* Are you involved in handling sheep/goat abortion material?
* Are you involved in handling sheep/goats manure?
* Are you involved in taking sheep/goats to market?
* Are you involved in sheep/goat slaughter?
* Are you involved in sheep/goat skinning?
* Are you involved in sheep/goat burial?
* For each of the activities above:
	+ How often do you do this activity?
	+ Do you have to travel outside the household to do this activity?
	+ What type of place do you go to for this activity?
	+ If yes, how do you travel there?
	+ How much does it cost?
	+ How long does it take you to travel there (minutes)?
	+ How long do you spend there (hours)?
	+ How many children go with you?
	+ What is the name of the place?

**Final questions**

* Does this homestead keep chickens?
* Do you feed your chickens?
* Do livestock have access to the buildings you sleep in?
* Which livestock have access to the buildings you sleep in?
* In the last 12 months, have you seen wildlife around the home?
* What wildlife have you seen?
* Tracker given?
* Tracker ID