

Appendix 1, Text 1. LEK survey and participatory ranking activity script

Write down time start:

First, I'd like to ask you a few questions about yourself.

1. What is your name?
2. How old are you/which year were you born?
3. What is your tribe/ethnicity?
4. What religion do practice/which church do you belong to?
5. What is (or was) your main livelihood?
6. A. How long have you lived in this village? B. Which ward/area do you live in?
7. If you've lived other places, where?
8. What experience do you have that lets you know or learn about elephants?

I'd also like to ask about what elephants seem to like, or what they don't like.

9. Which wild plants/trees do elephants prefer to eat?
10. List of all tree species in veg classification. With help from visual aids:
SPECIES SORTING ACTIVITY
A. Rank the ones you are familiar with, by how much elephants like them.
11. Now, what about habitat type?
HABITAT RANKING ACTIVITY
B. Rank the ones you are familiar with, by likelihood of elephant presence.
12. Now I'd like to ask about landscape types.
LANDSCAPE FEATURE RANKING ACTIVITY.
A. Pick the ones you are familiar with and rank them according to elephant presence.
13. Where do elephants get water?
14. What months of the year or seasons are they usually at these places?
15. Do elephants come into the village? If yes, what season/time of day does it happen?
16. Where around your village is there the most trouble related to elephants? For example crop raiding. Based on ward, physical description of the place: north, south, east, west, veld side, river side, etc.

I'd also like to ask about what things are barriers to elephant movements between the dryland and the floodplain.

17. As elephants from the dryland move toward the floodplain, what sorts of things might block their movement or cause them to change their path?
18. As elephants from the floodplain move toward the dryland, what sorts of things might block their movement or cause them to change their path?
19. Do fences block elephants from moving through an area? Veterinary, border fences, electric fences, bush fences, wire fences.
20. What areas do elephants avoid?
21. Do hills affect where elephants move? Do they go over hillslopes or around them?
22. Do you have anything else you would like to share?

Thank you for your participation.

Write down time end:

Appendix 1, Table 1. Participatory ranking activity choices of plant species, habitats, and landscape features used in the local ecological knowledge interviews.



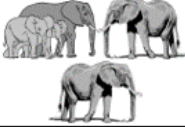
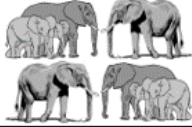
Plant species	Habitats	Landscape features
Grasses and reeds	bare ground with shrubs	hillslope/side of dune
<i>Baikiaea plurijuga</i>	dense shrub thicket	top of hill/dune
<i>Baphia massaiensis</i>	dense shrubs with some trees	valley between hills/dunes
<i>Bauhinia petersiana</i>	low woodland, trees with some shrubs	flat land
<i>Burkea africana</i>	open grassland with sage brush*	dry floodplains
<i>C. mopane</i> (tall)	open grassland with some shrubs, trees	wet floodplains
<i>Colophospermum mopane</i> (short)	open grasslands	islands
<i>Combretum</i> spp.	plowed fields	old dry river valleys, fossil riverbed
<i>Dichrostachys cinerea</i>	unplowed/overgrown fields	permanent river channels
<i>Diospyros mespiliformis</i>	shrubs with some grass	around the edges of the river channels
<i>Grewia</i> spp.	shrubs with some trees	seasonal river channels
<i>Lonchocarpus nelsii</i>	tall woodland, trees with some shrubs	
<i>Senegalia mellifera</i>		
<i>Terminalia sericea</i>		
<i>Vachellia erioloba</i>		

* Removed from analysis due to responses from interviewees that it was not present in the landscape

Appendix 1, Figure 1. Participatory ranking activity cards used to gather data about elephants' use/preference of plant species, habitats, and landscape features in the local ecological knowledge interviews.

PLANTS

This is a way to rank different plants that elephants might eat or stay near. For each different plant card, please decide whether elephants are never there or around that plant, sometimes there or sometimes like to eat that plant, or always there. If you don't know a certain plant, that's alright, just say so. If you know it, but don't know whether elephants are around there or eating that plant, that's alright, just say so.



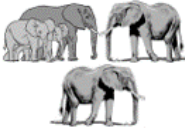
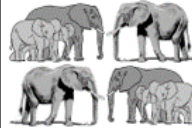
				
Elephants are never found around this plant	Elephants are rarely found around this plant	Elephants are sometimes found around this plant	Elephants are almost always found around this plant	Elephants are always found around this plant
(1)	(2)	(3)	(4)	(5)

OR: I don't know this plant

OR: I know this plant but I don't know how elephants eat it or not

HABITATS

This is a way to rank different habitats, or ways that plants grow together, where you might find elephants. For each different habitat card, please decide whether elephants are never there or around that habitat, sometimes there, or always there. If you don't know a certain habitat, that's alright, just say so. If you know it, but don't know whether elephants are around there or using that habitat, that's alright, just say so.



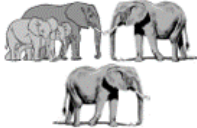
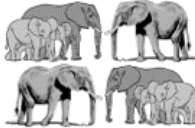
				
Elephants are never found around this habitat	Elephants are rarely found around this habitat	Elephants are sometimes found around this habitat	Elephants are almost always found around this habitat	Elephants are always found around this habitat
(1)	(2)	(3)	(4)	(5)

OR: I don't know this habitat

OR: I know this habitat, but I don't know how elephants use it

LANDSCAPE FEATURES

This is a way to rank different landscape features, or parts of the land, where you might find elephants. For each different landscape feature card, please decide whether elephants are never there or around that feature, sometimes there, or always there. If you don't know a certain feature, that's alright, just say so. If you know it, but don't know whether elephants are around there or using that landscape feature, that's alright, just say so.

				
Elephants are <u>never found</u> around this landscape feature (1)	Elephants are <u>rarely found</u> around this landscape feature (2)	Elephants are <u>sometimes found</u> around this landscape feature (3)	Elephants are <u>almost always found</u> around this landscape feature (4)	Elephants are <u>always found</u> around this landscape feature (5)

OR: I don't know this landscape feature

OR: I know this landscape feature, but I don't know how elephants use it