



Figure S1. ROC Curve based on the best model of acceptance of hippos. Probability cut-off points are shown. AUC (area under the ROC curve) value = 0.97. Using a cut-off of 0.4, which reasonably optimized the false and true positive rates and intersection of the sensitivity and specificity curves, the model correctly classified 95.5% of observations. Sensitivity was 92%, and specificity was 96%.

KIRI AREA HIPPOPOTAMOUS QUESTIONNAIRE

Village _____
Ward _____
Date _____
Start _____ Stop _____

DEMOGRAPHIC DATA

1) Age (years): _____

2) Gender: ☐ MALE (1) ☐ FEMALE (2)

3) Are you an indigene of this village? ☐ NO (1) ☐ YES (2)

If NO, how many years have you lived here? _____

4) Currently married: ☐ NO (1) ☐ YES (2)

5) How many children *currently living* do you have? _____

6) How many people live in your household, INCLUDING YOU? _____

7) Religion: ☐ ISLAM (1) ☐ CHRISTIANITY (2) ☐ Other: _____

8) What languages do you speak? (**TICK ALL THAT APPLY**)

☐ HAUSA ☐ FULFUDE ☐ ENGLISH ☐ BURA/BABUR
☐ KANAKURU ☐ BARE ☐ JUKUN ☐ LUNGUDA

Other: _____

EDUCATION

9) Did you go to school? NO (1) ☐ YES (2) ☐

10) Which class did you reach (*did you complete IN FULL*)?

☐ PRIMARY (1) ☐ JS (2) ☐ SS (3) ☐ TERTIARY (4)

Level successfully completed: PRIMARY / JUNIOR / SENIOR

1 2 3 4 5 6

OCCUPATION/CROPS

11) Do you work to earn money? ☐ NO (1) ☐ YES (2)

12) *If YES, what do you do to earn money?* ☐ FARMING ☐ FISHING

☐ LIVESTOCK REARING ☐ HUNTING ☐ PETTY TRADING

☐ CIVIL SERVICE ☐ SKILL-BASED (CARPENTER, DRIVER, ETC.)

Other: _____

13) If *FARMING* is ticked in #12 above, which crops do you grow year-round (in any season, or at any time in a year)? **(TICK ALL THAT APPLY)**

☐ Rice ☐ Maize ☐ Guinea corn ☐ Beans ☐ Potato ☐ Tomato
☐ Millet ☐ Ridi Other: _____

14) If *FARMING* is ticked in #12 above, do you grow any crops at the dam (next to the water)?

☐ NO (1) ☐ YES (2)

If *YES*, what crop(s) do you grow at the dam (next to the water)? **(TICK ALL THAT APPLY)**

☐ Rice ☐ Maize ☐ Guinea corn ☐ Beans ☐ Potato ☐ Tomato
☐ Millet ☐ Ridi Other: _____

HIPPOPOTAMOUS

15) Do you know the animal called hippo – *DORINA* or *LIUYO* or *LIKIWE* / *LUKIWE*?

☐ NO (1) ☐ YES (2) ☐ DON'T KNOW (3)

► **NOTE: If NO or DON'T KNOW, conclude interview. If YES, continue to #16.**

16) Have you ever seen a hippo with your own eye? ☐ NO (1) ☐ YES (2)

17) **IN THE PAST 5 YEARS**, has the number of hippo in this area increased, decreased, or stayed the same?

☐ INCREASED (1) ☐ DECREASED (2) ☐ SAME (3) ☐ DON'T KNOW (4)

18) Explain why you think this: _____

19) Does the presence of hippo provide any benefits, or advantages, to the people in this area?

☐ NO (1) ☐ YES (2) ☐ DON'T KNOW (3)

20) If *YES*, what benefits, or advantages, do hippos provide? **(TICK ALL THAT APPLY)**

☐ INCREASE NUMBER OF FISH

☐ OTHER: _____

21) Have you ever tasted the meat of hippo?

☐ NO (1)

☐ YES (2)

☐ DON'T KNOW (3)

22) IF YES, compared to other meat, such as cow or goat meat, does the meat of hippo taste less sweet, more sweet, or about the same?

☐ LESS SWEET (1)

☐ MORE SWEET (2)

☐ SAME (3)

23) Do hippos cause any problems to the people in this area?

☐ NO (1)

☐ YES (2)

☐ DON'T KNOW (3)

24) IF YES, what problems do they cause? (**TICK ALL THAT APPLY**)

☐ EAT/DAMAGE CROPS

☐ DISTURB FISHING ACTIVITIES

☐ DAMAGE FISHING NETS

☐ DAMAGE BOATS

☐ DISTURB WATER TRANSPORT

☐ INJURE OR KILL LIVESTOCK (DOMESTIC ANIMALS)

☐ INJURE OR KILL PEOPLE

☐ OTHER: _____

25) If EAT/DAMAGE CROPS is ticked above, which crops do hippos typically eat or damage? (**TICK ALL THAT APPLY**)

☐ Rice ☐ Maize ☐ Guinea corn ☐ Beans ☐ Potato ☐ Tomato

☐ Millet ☐ Ridi Other: _____

26) If EAT/DAMAGE CROPS is ticked above, at which time of the year do hippos cause the most damage to crops?

☐ Rainy season (1)

☐ Dry season (2)

☐ Year-round (3)

Which months? _____

27) If you see a hippo in your farm, or close to your home or boat, what do you do?

28) IN THE PAST 5 YEARS, how many hippos have been killed by local people? _____

29) What was the reason or reasons the hippo (or hippos) was killed? (**TICK ALL THAT APPLY**)

- ☐ HIPPO DESTROYED CROPS
- ☐ HIPPO DESTROYED FISHING NETS/BOATS
- ☐ KILLED OR INJURED SOMEONE / HIPPO IS DANGEROUS
- ☐ FOR FOOD/MEAT
- ☐ FOR LOCAL TRADITIONS/CUSTOMS (e.g., TO RECEIVE TITLE)
- ☐ TO USE THE HIDE/SKIN
- ☐ OTHER: _____

30) If a hippo is killed, what happens to the body? (**TICK ALL THAT APPLY**)

- ☐ FOOD – EATEN AS MEAT
- ☐ HIDE/SKIN USED TO MAKE WHIPS
- ☐ DISPLAY THE SKULL
- ☐ USE PARTS OF THE BODY FOR MEDICINE
- ☐ NOTHING
- ☐ OTHER: _____

CONSERVATION/PROTECTION

31) *UNDER CURRENT CIRCUMSTANCES*, do you think hippos should be protected against killing and harassment in this area?

- ☐ NO (1) ☐ YES (2) ☐ DON'T KNOW (3)

Please explain why or why not: _____

32) According to government laws, is it legal or illegal to kill a hippo?

- ☐ LEGAL (1) ☐ ILLEGAL (2) ☐ DON'T KNOW (3)

33) Is any permission needed before someone can kill a hippo?

- ☐ NO (1) ☐ YES (2) ☐ DON'T KNOW (3)

If YES to #33 above, from whom or from where must the person get permission?

If YES to #33 above, if no permission is given and someone kills a hippo, will anything happen to the person?

☐ NO (1)

☐ YES (2)

☐ DON'T KNOW (3)

If YES, what will happen to the person?

34) UNDER CURRENT CIRCUMSTANCES, do you prefer hippos to be present or not present in this area?

☐ NOT PRESENT (1)

☐ PRESENT (2)

☐ DON'T CARE (3)

Explain why: _____

OTHER COMMENTS/NARRATIVE:
