

Appendices

List of the Appendices:

Appendix 1: Survey questionnaire for Small scale livestock farmers

Appendix 2: Pictures from the research with description

Appendix 1: Survey questionnaire for Small scale livestock farmers

Questionnaire to Study Livestock inventory of small-scale farms in Ghana with the special focus on feedstuffs. Information gathered will solely be used for the purpose of this study. I personally assure you that your answers will always be kept strictly confidential and never be revealed to any other people. The only thing I am requesting from you is that you answer the questions frankly, in your best possible way, and to the best of your knowledge. If you cannot answer some questions, simply say so.

Do you agree to participate in this survey? 1. Yes 2. No (If Yes, continue the survey)

Instruction: Encircle with correspondence, list accordingly and provide information where necessary.

Date:

Region:

District:

Community:

1. General information

1.1 Gender

- a. Male b. Female

1.2 Age

- a. 18 – 25 b. 26 – 40 c. 41 – 59 d. > 60

1.3 Farming years' experience

- a. 1-5 b. 6-10 c. 11-20 d. 21-30 e. > 30

1.4 Level of education

- a. None b. Basic c. Secondary d. Tertiary

1.5 Main purpose of production (choose one)

- a. Income generation.
- b. Food products to feed family.
- c. Off farm (e.g. transport, recreation, sport, research, religion).
- d. On-farm functions manure production traction.

2. Livestock raised on farm

2.1 (tick as many as corresponds to your farm)

Livestock	Tick	Breed	Number
Goat			
Sheep			
Cattle			
Pig			
Poultry			
Rabbits			
Grasscutter			
Fish			
Snail			

2.2 Size of farm area in acres ...

- a. < 5 acres
- b. between 6-10 acres
- c. between 11-15 acres
- d. between 16-20 acres
- e. between 21-30 acres

2.3 Labour size

- a. 1
- b. 2
- c. 3
- d. 4
- e. more than 5

3. What do you feed animal with? (Choose one, the most important)

- a. Formulated feed
- b. Local plant source
- c. Industrial waste
- d. Kitchen waste
- e. Garden/crop waste

3.1 Do you use local plant sources? YES or NO.

(No – skip question 3.2, 3.3 and 3.4)

(Yes – continue with the question 3.2, 3.3 and 3.4)

3.2 If Yes, what local plant(s). Please name it and the parts used for feeding

.....

3.3 What is the source,

- a. Purchase from industries b. Harvested from cultivated pasture
- c. Harvested from wild pasture

3.4 Do you send animals grazing or feed with cut forage?

3.5 Which plant feedstuff do you rank first, amongst all plant species you use

.....

4. Feed resource and feeding strategies (pasture)

3.6 Which part of local plant feed stuff is fed to animal? (Choose as many as corresponds to you)

- a. Leaves b. Stem
- b. Fruits c. Roots
- c. Bark d. Husks
- d. Twigs e. Seed

5. Feed availability, shortage coping mechanism and consequences

How does the availability of feed vary over an average year? (On a scale of 0-10, where 10 = excess feed available, 5= adequate feed available and 0=no feed available)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Feed availability												
Score (0-10)												

5.1 What is the main consequence of the feed shortage on your livestock? (Choose one)

- a. Weight loss
- b. Yield reduction
- c. Weakness
- d. Increased mortality
- e. Abortion frequency

5.2 What are your main constraints in livestock raising?

6. Main measures taken to alleviate the issues of feed shortages? (Choose one)

- a. Feed preservation as hay
- b. Use of improved forage production
- c. Purchase concentrates
- d. Forage purchase (rent grazing land)
- e. No measures taken

7. Do you keep farm records? YES or NO.

If No, why?

- a. Do not know how to keep records
- b. Have no need for records
- c. Have no time for record keeping

8. Feed supply and cost

8.1 Is your feed purchased from? (choose one)

- a. Local market
- b. Farm residue
- c. Manufacturing industries

8.2 At what cost is feed purchased per kilogram? Please state.....

9. What is your estimated yearly income?

NOTE: Thank you very much for your participation in this survey. Your answers will be extremely useful for our research. Again, I assure you that all the answers you have provided in this survey will be kept strictly confidential and will never be revealed to any other person outside our research group. Would you mind telling me your name please?

Appendix 2: Pictures from the research with description



Photo 1: A visit to a pig farmer in Abokobi community, Ga-East district.



Photo 2: Sheep feeding on plantain leaves



Photo 3: Grasscutter feeding on elephant grass