



## Antimicrobial use in livestock production systems (AMUSE Livestock): Tool to harmonise data collection on knowledge, attitude and practices

*This tool has been prepared by the Livestock Health flagship of the CRP LIVESTOCK  
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Elisabeth Lindahl, Ulf Magnusson*

| <b>Criteria for selecting respondent: person who plays a major role in the management of livestock</b> |  |
|--|--|
| <b>INFORMATION ON ENUMERATION</b>  |  |
| 1. Questionnaire ID  |  |
| 2. Date of Survey (DD/MM/YYYY)   |  |
| 3. Enumerator's name (First Name and Last Name)  | List of names of enumerators   |
| 4. Interview done via interpreter  | <input type="checkbox"/> 1=yes<br><input type="checkbox"/> 2=no  |
| 5. Enumerator's sex  | <input type="checkbox"/> 1=Male, (If list available then this should be automatically filed)<br><input type="checkbox"/> 2=Female  |
| 6. Time interview started (HH:MM)  | Will be automatically generated by the tablets   |
| 7. Time interview ended (HH:MM)  | Will be automatically generated by the tablets   |
| 8. Consent received (signature on form if literate)  | <input type="checkbox"/> 1=yes<br><input type="checkbox"/> 2=no  |
| <b>FARM BASICS AND LOCATION</b>  |  |
| 9. District  | List of all districts pre-coded  |
| 10. Sub-county   | List of all sub counties pre-coded   |
| 11. Parish   | List of all parishes pre-coded   |
| 12. Village  | List of all village pre-coded  |
| 13. GPS Coordinates  | Will be automatically generated by the tablets   |
| <b>HOUSEHOLD DEMOGRAPHICS</b>  |  |
| 14. Sex of the Household head  | <input type="checkbox"/> 1=Male<br><input type="checkbox"/> 2=Female   |
| 15. Sex of the respondent (if other than household head)   | <input type="checkbox"/> 1=Male<br><input type="checkbox"/> 2=Female   |
| 16. Age of respondent (years)  | .....  |
| 17. Role of the respondent in relation to livestock (multiple answers possible)                        | <input type="checkbox"/> 1 Management<br><input type="checkbox"/> 2 Marketing<br><input type="checkbox"/> 3 Owner<br><input type="checkbox"/> 4 None<br><input type="checkbox"/> 5 other         |
| 18. What is the main source of income for the household? (Mark one)                                    | <input type="checkbox"/> 1 crop farming<br><input type="checkbox"/> 2 cattle keeping<br><input type="checkbox"/> 3 pig keeping (inc. sales)<br><input type="checkbox"/> 4 small ruminant keeping |

|   |  |  |
|---|--|--|
|   | <input type="checkbox"/> 5 poultry keeping<br><input type="checkbox"/> 6 salaried employment<br><input type="checkbox"/> 7 self-employed-off farm<br><input type="checkbox"/> 8 casual laboring<br><input type="checkbox"/> 9 Boda-boda<br><input type="checkbox"/> 10 other (specify).....  |  |
| 19. Livestock contributes to                                  | <input type="checkbox"/> 1 To half or more of the household's income<br><input type="checkbox"/> 2 To less than half of the household's income<br><input type="checkbox"/> 3 Does not contribute to the household income   |  |
| 20. What is the education level of the respondent?            | <input type="checkbox"/> 1 Never went to school<br><input type="checkbox"/> 2 Non-formal education (years).....<br><input type="checkbox"/> 3 Primary education (P1-P7)<br><input type="checkbox"/> 4 Secondary school (S1-S6)<br><input type="checkbox"/> 5 Vocational training (specify).....<br><input type="checkbox"/> 6 University degree (undergraduate)<br><input type="checkbox"/> 7 Adult literacy |  |
| 21. Do you have hired workers on the farm                     | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No, family members only 2   |  |
| <b>FARM CHARACTERISTICS</b>                                   |  |  |
| 22. What livestock do you have? (filter question)             | <input type="checkbox"/> 1Cattle (beef, dairy)<br><input type="checkbox"/> 2Small ruminants<br><input type="checkbox"/> 3Poultry<br><input type="checkbox"/> 4Pigs<br><input type="checkbox"/> 5Equine<br><input type="checkbox"/> 6Camel  |  |
| 23. Who has the <b>main</b> responsibility (for each species) |  |  |
| <input type="checkbox"/> 1 Household head (man)               |  |  |
| <input type="checkbox"/> 2 Household head (woman)             |  |  |
| <input type="checkbox"/> 3 Joint responsibility (Couple)      |  |  |
| <input type="checkbox"/> 4 Daughter                           |  |  |
| <input type="checkbox"/> 5 Son                                |  |  |
| <input type="checkbox"/> 6 Employee                           |  |  |
| <input type="checkbox"/> 7 Other (specify)                    |  |  |
| 24. Herd flock size (number of animals for each species)      |  |  |
| a) Poultry  | Number.....  |  |
| b) Equines  | Number.....  |  |
| c) Cattle   | Adult males (>2 years)   |  |
|   | Adult females (>2 years)   |  |
|   | Calves/heifers   |  |
| d) Pigs   | Sows   |  |
|   | Boars  |  |
|   | Growers/fatteners  |  |
|   | Piglets (<3 months)  |  |
| e) Small ruminants  | Males (>1 year)  |  |
|   | Females (>1 year)  |  |
|   | Young  |  |
| f) Camels   |  |  |

| 25. Characteristics of livestock production systems (single choice/most common practice throughout the year) |  |  |
|--|--|--|
| <b>1. PIGS</b>   | <input type="checkbox"/> 1= free-range<br><input type="checkbox"/> 2= tethered<br><input type="checkbox"/> 3= housed |  |
| <b>2. POULTRY</b>  | <input type="checkbox"/> 1= free-range<br><input type="checkbox"/> 2= housed   |  |
| <b>3. Cattle</b>   | <input type="checkbox"/> Beef  | <input type="checkbox"/> 1 = Zero grazing<br><input type="checkbox"/> 2 = Fenced individual farm grazing<br><input type="checkbox"/> 3 = Communal grazing<br><input type="checkbox"/> 4 = Pastoral |
|  | <input type="checkbox"/> Dairy   | <input type="checkbox"/> 1 = Zero grazing<br><input type="checkbox"/> 2 = Fenced individual farm grazing<br><input type="checkbox"/> 3 = Communal grazing<br><input type="checkbox"/> 4 = Pastoral |
| 4. Small ruminants   |  | <input type="checkbox"/> 1 = Zero grazing<br><input type="checkbox"/> 2 = Fenced individual farm grazing<br><input type="checkbox"/> 3 = Communal grazing<br><input type="checkbox"/> 4 = Pastoral |
| 5. Equines   |  | <input type="checkbox"/> 1 = Zero grazing<br><input type="checkbox"/> 2 = Fenced individual farm grazing<br><input type="checkbox"/> 3 = Communal grazing<br><input type="checkbox"/> 4 = Pastoral |
| 6. Camels  |  | <input type="checkbox"/> 1 = Zero grazing<br><input type="checkbox"/> 2 = Fenced individual farm grazing<br><input type="checkbox"/> 3 = Communal grazing<br><input type="checkbox"/> 4 = Pastoral |

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|--|--|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|
| 26. Do you sell milk   | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
| 27. Which period of the year do you regularly sell milk? (multiple choices are allowed for the months)               | Throughout the year <input type="checkbox"/>   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
|  | Seasonal (use calendar below) <input type="checkbox"/>   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
| 28. Do you sell eggs (multiple choices are allowed for the months)   | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
| 29. Which period of the year do you regularly sell eggs? (multiple choices are allowed for the months)for the months | Throughout the year <input type="checkbox"/>   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
|  | Seasonal (use calendar below) <input type="checkbox"/>   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |
| 30. Do you sell live animals ?   | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |

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| <p>31. If yes, which species? Indicate during which months of the year you sell live animals (multiple choices are allowed for the months)</p> | <p><input type="checkbox"/> <b>1 Pigs</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p><input type="checkbox"/> <b>2 Poultry</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p><input type="checkbox"/> <b>3 Cattle</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p><input type="checkbox"/> <b>4 Small ruminants</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p><input type="checkbox"/> <b>5 Equines</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> <p><input type="checkbox"/> <b>6 Camel</b><br/>         Throughout the year <input type="checkbox"/><br/>         Seasonal (use calendar below) <input type="checkbox"/></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table> | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  | J | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |  |  |  |  |  |  |  |  |
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| J  | F   | M | A | M | J | J | A | S | O | N | D |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
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| J  | F   | M | A | M | J | J | A | S | O | N | D |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| J  | F   | M | A | M | J | J | A | S | O | N | D |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |

| <b>MANAGEMENT OF MANURE, FEED AND WATER</b>  |          |                   |            |            |         |          |
|--|----------|-------------------|------------|------------|---------|----------|
| 32. Manure management (by species), tick the <b>most common</b> option for each species (single choice). |          |                   |            |            |         |          |
| Activity   | 1.Cattle | 2.Small ruminants | 3. Equines | 4. Poultry | 5. Pigs | 6. Camel |
| a. Leave on farm, do nothing   |          |                   |            |            |         |          |
| b. Discard into environment  |          |                   |            |            |         |          |
| c. Open air  |          |                   |            |            |         |          |
| d. Used as fertilizer  |          |                   |            |            |         |          |
| e. Use for fuel (incl. biogas)   |          |                   |            |            |         |          |
| f. Sold for cash   |          |                   |            |            |         |          |
| g. Taken by other farmers  |          |                   |            |            |         |          |

|  |          |                   |            |            |         |          |
|--|----------|-------------------|------------|------------|---------|----------|
| h. Other (specify)   |          |                   |            |            |         |          |
| 33. Feed products used per species (multiple answers per species possible), tick |          |                   |            |            |         |          |
| Type of feed   | 1.Cattle | 2.Small ruminants | 3. Equines | 4. Poultry | 5. Pigs | 6. Camel |
| Pasture/scavenging   |          |                   |            |            |         |          |
| Waste (household/restaurant, etc)  |          |                   |            |            |         |          |
| grains/crop residues   |          |                   |            |            |         |          |
| Feed mixed at farm   |          |                   |            |            |         |          |
| Commercial/pre-mix   |          |                   |            |            |         |          |
| Other  |          |                   |            |            |         |          |

**ANIMAL HEALTH AND DISEASE PREVENTION**

34. What was the **main animal disease problem** during the last 12 months (one disease per species)-if the farmers says FEVER, probe for more clinical signs because fever is common for most diseases

|                               |          |         |          |            |         |            |          |
|-------------------------------|----------|---------|----------|------------|---------|------------|----------|
| Clinical signs                | 1.Cattle | 2.Goats | 3. Sheep | 4. Poultry | 5. Pigs | 6. Equines | 7. Camel |
| a) Respiratory                |          |         |          |            |         |            |          |
| b) Digestive tract/intestinal |          |         |          |            |         |            |          |
| c) Reproductive               |          |         |          |            |         |            |          |
| d) Mastitis                   |          |         |          |            |         |            |          |
| e) Sudden death               |          |         |          |            |         |            |          |
| f) Skin disease/wounds        |          |         |          |            |         |            |          |
| g) External parasites         |          |         |          |            |         |            |          |
| h) Neurologic signs           |          |         |          |            |         |            |          |
| i) Other                      |          |         |          |            |         |            |          |
| j) no disease problem         |          |         |          |            |         |            |          |

35. Have any animals been sick in the last 2 weeks?  1 YES  2 NO

36. If yes, which animal and kind of disease? Optional: Use a table of clinical signs by species and key diseases in annex

|                                |          |         |          |            |         |          |
|--------------------------------|----------|---------|----------|------------|---------|----------|
| Clinical signs                 | 1.Cattle | 2.Goats | 3. Sheep | 4. Poultry | 5. Pigs | 6. Camel |
| a) Respiratory                 |          |         |          |            |         |          |
| b) Digestive tract/ intestinal |          |         |          |            |         |          |
| c) Reproductive                |          |         |          |            |         |          |
| d) Mastitis                    |          |         |          |            |         |          |
| e) Sudden death                |          |         |          |            |         |          |
| f) Skin disease                |          |         |          |            |         |          |
| g) neurologic signs            |          |         |          |            |         |          |
| h) Other                       |          |         |          |            |         |          |

37. Was the disease diagnosed other than by yourself?  1 YES  2 NO

38. If yes, by whom?  1 Traditional healer  2 community animal health worker  3 private veterinarian (Diploma, BVM)  4 official (governmental) veterinarian  5 Other (specify).....

39. What do you do in response to diseases problems? (refer to the recent disease problems mentioned above)

| Activity  | 1.Cattle   | 2.Goats           | 3.Sheep   | 4.Poultry | 5.Pigs | 6.Camel   |          |
|---|--|-------------------|-----------|-----------|--------|-----------|----------|
| a) Use traditional medicine   |  |                   |           |           |        |           |          |
| b) Use medicine from the veterinary drug store (self-bought)  |  |                   |           |           |        |           |          |
| c) Consult traditional healer   |  |                   |           |           |        |           |          |
| d) Consult community animal health worker   |  |                   |           |           |        |           |          |
| e) Consult private veterinarian   |  |                   |           |           |        |           |          |
| f) Consult Government veterinarian  |  |                   |           |           |        |           |          |
| g) Vet applied/left drugs   |  |                   |           |           |        |           |          |
| h) Other, please specify  |  |                   |           |           |        |           |          |
| 40. From the drug categories shown (provide photographs of common veterinary drugs for each of the drug class), how often (how many times) have you used them for the different species in the last 2 months. Alternatively ask to see packaging of commonly used drugs and classify according to list below. |  |                   |           |           |        |           |          |
| Drug  | 1 Cattle   | 2 Small ruminants | 3 Equines | 4 Poultry | 5 Pigs | 6 Camels  |          |
| 1 Vaccines  |  |                   |           |           |        |           |          |
| 2 Anthelmintics (Albendazol, etc.)  |  |                   |           |           |        |           |          |
| 3 Arachnidicides (ectoparasites)  |  |                   |           |           |        |           |          |
| 4 Tetracyclines   |  |                   |           |           |        |           |          |
| 5 Sulphonamides   |  |                   |           |           |        |           |          |
| 6 Penicillin (and combinations with Penicillin)   |  |                   |           |           |        |           |          |
| 7 Fluoroquinolones  |  |                   |           |           |        |           |          |
| 8 Macrolides  |  |                   |           |           |        |           |          |
| 9 Aminoglycosides   |  |                   |           |           |        |           |          |
| 10 Other antibiotics (specify)  |  |                   |           |           |        |           |          |
| 11 Vitamins/Iron supplements  |  |                   |           |           |        |           |          |
| 12 Other drugs (specify)  |  |                   |           |           |        |           |          |
| 41. Do you have any particular means to protect animals from disease?   | <input type="checkbox"/> 1 YES <input type="checkbox"/> 2 NO |                   |           |           |        |           |          |
| 42. If yes, how?  |  |                   |           |           |        |           |          |
| Activity  | 1.Cattle   | 2.Goats           | 3.Sheep   | 3.Poultry | 4.Pigs | 5.Equines | 6.Camels |
| a) Fencing  |  |                   |           |           |        |           |          |
| b) Not mixing with other herd/flock   |  |                   |           |           |        |           |          |
| c) Special feed   |  |                   |           |           |        |           |          |
| d) Vet drugs (incl vaccine)   |  |                   |           |           |        |           |          |
| e) Do nothing   |  |                   |           |           |        |           |          |

f) Other, specify

| <b>ANIMAL HEALTH SERVICES</b>  |                   |  |           |        |           |  |
|--|-------------------|--|-----------|--------|-----------|--|
| 43. Does the farm have access to professional animal health services?  |                   | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2  |           |        |           |  |
| 44. If your farm access to animal health services, which ones?   |                   | <input type="checkbox"/> 1 State or government: <ul style="list-style-type: none"> <li><input type="checkbox"/> a) Fully trained veterinarian (BSc level)</li> <li><input type="checkbox"/> b) Paraveterinarian</li> <li><input type="checkbox"/> c) Other animal health care provider;</li> <li><input type="checkbox"/> d) Don't know the training or qualification</li> </ul> <input type="checkbox"/> 2 Private full time animal health worker: <ul style="list-style-type: none"> <li><input type="checkbox"/> a) Fully trained veterinarian (BSc level)</li> <li><input type="checkbox"/> b) Paraveterinarian</li> <li><input type="checkbox"/> c) Other animal health care provider;</li> <li><input type="checkbox"/> d) Don't know the training or qualification</li> </ul> <input type="checkbox"/> 3 Both state/government and private <ul style="list-style-type: none"> <li><input type="checkbox"/> a) Fully trained veterinarian (BSc level)</li> <li><input type="checkbox"/> b) Paraveterinarian</li> <li><input type="checkbox"/> c) Other animal health care provider;</li> <li><input type="checkbox"/> d) Don't know the training or qualification</li> </ul> <input type="checkbox"/> 4 Other (specify)..... |           |        |           |  |
| 45. If you have access to animal health services, do the animal service include laboratory testing?                              |                   | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2  |           |        |           |  |
| 46. If you have access to laboratory services, do you use it?  |                   | <input type="checkbox"/> 1 Yes, when needed<br><input type="checkbox"/> 2 Rarely<br><input type="checkbox"/> 3 No  |           |        |           |  |
| 47. If yes, for diagnosis in which species?  |                   |  |           |        |           |  |
| 1.Cattle   | 2.small ruminants | 3.Equines  | 4.Poultry | 5.Pigs | 6. Camels |  |
| 48. If you don't use them, why?  |                   | <input type="checkbox"/> 1 Not available<br><input type="checkbox"/> 2 Not efficient<br><input type="checkbox"/> 3 Too expensive<br><input type="checkbox"/> 4 Would like more<br><input type="checkbox"/> 5 Other (specify).....  |           |        |           |  |
| 49. Is the farm involved in a regular animal health service program, like vaccination campaign etc run by government and/or NGO? |                   | <input type="checkbox"/> 1 Yes<br><input type="checkbox"/> 2 No  |           |        |           |  |
| 50. If yes to above, please name   |                   | .....  |           |        |           |  |
| 51. Do you access pharmaceuticals/veterinary drugs?  |                   | <input type="checkbox"/> 1 Yes<br><input type="checkbox"/> 2 No  |           |        |           |  |
| 52. If yes, which kind of pharmaceuticals/veterinary drugs have you used in  |                   | List them:.....  |           |        |           |  |

|  |  |
|--|--|
| the last 4 weeks? (LIST PER SPECIES, PHOTOGRAPH) |  |
|--|--|

| <b>VETERINARY DRUG USE: THE FOLLOWING QUESTIONS FOR EACH SPECIES PRESENT IN THE FARM (ONE DRUG)</b> |  |
|---|--|
| 53. Which of the drugs is the most commonly used?<br>(pictures or drug samples) (refer to Q52)      | DROP DOWN LIST WITH VET DRUGS  |
| 55. Why do you use this drug?   | <input type="checkbox"/> 1 Disease prevention<br><input type="checkbox"/> 2 Treatment sick animal<br><input type="checkbox"/> 3 Fattening<br><input type="checkbox"/> 4 Other (specify)  |
| 56. Via which channel do you access this pharmaceuticals/veterinary drugs                           | <input type="checkbox"/> 1 Private vet<br><input type="checkbox"/> 2 Public/official vet<br><input type="checkbox"/> 3 Animal health worker<br><input type="checkbox"/> 4 Veterinary drug store<br><input type="checkbox"/> 5 From human pharmacies<br><input type="checkbox"/> 6 At markets<br><input type="checkbox"/> 7 Feed providers<br><input type="checkbox"/> 8 Other farmers<br><input type="checkbox"/> 9 Via NGOs <input type="checkbox"/> 10 Other (specify) |
| 57. To which animals do you give the drug?  | <input type="checkbox"/> All of the same species<br><input type="checkbox"/> Sick animals only<br><input type="checkbox"/> Sick and in contact animals<br><input type="checkbox"/> Before selling an animal<br><input type="checkbox"/> Animals newly introduced into herd<br><input type="checkbox"/> All animals in household  |
| 58. How long do you use the drug?   | <input type="checkbox"/> As advised<br><input type="checkbox"/> Until animal(s) cured<br><input type="checkbox"/> Until package empty<br><input type="checkbox"/> As long as I can afford<br><input type="checkbox"/> One time treatment<br><input type="checkbox"/> Continuously over extended period<br><br>Estimated average number days.....   |
| 59. Who administer the drug?  | <input type="checkbox"/> 1 Myself<br><input type="checkbox"/> 2 Vet<br><input type="checkbox"/> Other (specify).....   |
| 60. How is the drug applied/given?  | <input type="checkbox"/> 1 Injection<br><input type="checkbox"/> 2 Oral<br><input type="checkbox"/> 3 with feed<br><input type="checkbox"/> 4 with water<br><input type="checkbox"/> 5 on skin<br><input type="checkbox"/> 6 other (specify).....  |



|  |   |
|--|---|
| 61. Do you get advice how to use the vet drugs?  | <input type="checkbox"/> Yes 1<br><input type="checkbox"/> No 2   |
| 62. If yes to above, via which channel?  | <input type="checkbox"/> 1 from the veterinarians<br><input type="checkbox"/> 2 from the animal health worker<br><input type="checkbox"/> 3 from pharmacies or markets<br><input type="checkbox"/> 4 from other farmers<br><input type="checkbox"/> 5 via the feed provider<br><input type="checkbox"/> 6 from the package/label of the pharmaceutical<br><input type="checkbox"/> 7 Other, state who.....<br><input type="checkbox"/> 8 No, own judgment |
| 63. When using veterinary drugs, whose instructions (kind, dose, length of treatment) do you follow: | <input type="checkbox"/> 1 The Veterinarian's<br><input type="checkbox"/> 2 The animal health worker's<br><input type="checkbox"/> 3 The pharmacy's<br><input type="checkbox"/> 4 The feed company's<br><input type="checkbox"/> 5 Other farmer's<br><input type="checkbox"/> 6 My own judgement<br><input type="checkbox"/> 7 Other's(specify).....  |

| <b>USE OF ANTIBIOTICS</b>  |  |
|--|--|
| 64. What does vaccination do?<br>(multiple answers possible)   | <input type="checkbox"/> 1 Cure sick animals<br><input type="checkbox"/> 2 Prevent animals from becoming sick<br><input type="checkbox"/> 3 Cure sick animals and prevent animals from becoming sick<br><input type="checkbox"/> 4 Fattening |
| 65. What do antibiotics do? (multiple answers possible)  | <input type="checkbox"/> 1 Cure sick animals<br><input type="checkbox"/> 2 Prevent animals from becoming sick<br><input type="checkbox"/> 3 Cure sick animals and prevent animals from becoming sick<br><input type="checkbox"/> 4 Fattening |
| If the subject understands what antibiotics (option 1 and 3) are based on the two questions above continue as follows: |  |
| 66. Do you consume milk, from animals who were just treated with antimicrobials.                                       | <input type="checkbox"/> 1 Yes<br><input type="checkbox"/> 2 No  |
| 67. If No to the above, for how long time should those products be avoided (open) (in days)                            | .....  |
| 68. Do you consume eggs from animals who were just treated with antimicrobials.  | <input type="checkbox"/> 1 Yes<br><input type="checkbox"/> 2 No  |

|   |   |
|---|---|
| 69. If No to the above, for how long time should those products be avoided (open) (in days) | .....   |
| 70. Do you consume meat from animals who were just treated with antimicrobials.             | <input type="checkbox"/> 1 Yes<br><input type="checkbox"/> 2 No |
| 71. If No to the above, for how long time should those products be avoided (open) (in days) | .....   |

|  |   |
|--|---|
| 72. Have you experienced situations where drugs did not work | <input type="checkbox"/> 1 Yes, frequently<br><input type="checkbox"/> 2 Yes, sometimes<br><input type="checkbox"/> 3 No, never |
|--|---|

73. If you have experience with drug failure (YES to Q72), which drugs did not work?

| Drug on pictures shown | 1.Cattle | 2.Poultry | 3.Pigs | 4.Small ruminants | 5.Equine | 6.Camels |
|------------------------|----------|-----------|--------|-------------------|----------|----------|
| xxxxxx                 | x        |           | x      |                   |          | x        |
| ccccc                  | x        | x         |        | x                 |          |          |
| rrrrr                  |          | x         |        |                   |          |          |

|  |       |
|--|-------|
| If the veterinary drug do not work, do you know why? | ..... |
|--|-------|

|   |   |
|---|---|
| 74. What do you do with expired veterinary drugs? | <input type="checkbox"/> 1 Dispose off<br><input type="checkbox"/> 2 Return to pharmacy<br><input type="checkbox"/> 3 Give to other farmer<br><input type="checkbox"/> 4 Use for intended treatment<br><input type="checkbox"/> 5 Nothing<br><input type="checkbox"/> 6 Other (specify) |
|---|---|

|  |   |
|--|---|
| 75. <b>FOR EACH SPECIES:</b> What was your total expenditure in drugs during the last year in local currency (put 0 if none) | <input type="checkbox"/> 1 Dewormer [.....]<br><input type="checkbox"/> 2 Vaccination [.....]<br><input type="checkbox"/> 3 Antibiotics [.....]<br><input type="checkbox"/> 4 Acaracides [.....]<br><input type="checkbox"/> 5 Vitamins |
|--|---|

**NB: Note that the GIS may take some time to load approximately 5 minutes however they work**

**List of annexes**

1. List of pictures of drugs, organised into drug classes as specified in question 40.
2. List of clinical signs by syndrome
3. Groups drug used by de-wormers, vaccines, AB, vitamins
4. List of social events and festive seasons with the months they happen