



BIOCHECK SMALL RUMINANTS

Intensive meat production



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This survey is designed for use in **intensive sheep/goat farming**.

This involves confinement of the flock/herd with zero or limited free grazing, the aim of which is to attain heavier lambs/kids at slaughter, lower lambing/kidding interval and higher weaning percentage than that found in flocks/herds maintained under other grazing conditions (e.g. semi-intensive, extensive, transhumant farming). Such a system requires improved forage production and utilization, use of concentrates, a high level of veterinary care and better housing and feeding facilities which could be mechanized whenever the required managerial skills are available.

Glossary

Barns:

Barns are larger agricultural buildings used for various purposes, including housing livestock. In small ruminant farming, barns may serve as a shelter for goats or sheep, especially during extreme weather conditions or for housing larger herds. Barns can have multiple sections, such as stalls or pens, and may include areas for feeding, milking, and storage of feed or equipment.

Buck (bucks):

A male goat.

Disease outbreak:

A sudden rise in the number of disease cases.

Doe (does):

A female goat.

Doelings:

Young female goats that have not yet reached maturity. This usually refers to female goats between 6 and 12 months old.

Ewe (ewes):

A female sheep.

Ewe lambs:

Young female sheep that have not yet reached maturity.

Feed:

Supplementary food that is given to animals to supplement grazing or to meet specific nutritional requirements.

Flock:

A group of sheep.

Forage:

Vegetation or plant material that is consumed by grazing animals.

Grazing:

The act of feeding animals by allowing them to eat grass or other vegetation in a pasture or range.

Herd:

A group of goats.

Kid (kids):

A young goat under 6 months.

Kidding:

The process of giving birth to kids.

Lamb (lambs):

A young sheep up to one year old.

Lambing:

The process of giving birth to lambs.

Non-professional visitors:

People coming to the farm who are not necessary for the daily operations; scholars, students, family, neighbours, ...

Pasture:

A managed area of land where animals graze.

Ram (rams):

A male sheep.

Sheds:

Sheds are simpler structures, often smaller and more open than barns. They are used for storage, shelter, or housing animals. In small ruminant farming, sheds can be used as a shelter for goats or sheep during specific periods, such as lambing or kidding seasons. They provide protection from rain, wind, and sun while allowing for more ventilation compared to enclosed structures such as barns.

Vermin:

Refers to pest animals including rodents, insects, and wild birds.

Weaning:

Gradually separating young animals from their mother's milk and transitioning them to solid food.

The survey is written from the perspective of the farmer. However, we welcome veterinarians, advisors, and other healthcare professionals to use the survey as well.

~. Farm characteristics

I. Do you have sheep, goats or both?

 Select one option. Sheep Goats Both
II. How many rams/bucks are there on the farm?
The number of male animals present on the farm for reproduction. Please provide the average figures during a yearly productive cycle.
III. How many adult ewes/does are there on the farm?
Please provide the average figures during a yearly productive cycle.
IV. How many ewe lambs/doelings are there on the farm?
Please provide the average figures during a yearly productive cycle.
V. How many <u>years</u> of experience in keeping sheep/goats does the person in charge have?
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VI. Who actively performs the farm work with the sheep/goats?
Employees are part of the permanent staff, whereas the contractors are temporary staff.
Check any that apply. □ The herd/flock owner □ The family member(s) □ The employee(s) □ The contractor(s)

A. Purchase and reproduction

1. Have sheep/goats been purchased within the last 5 years? (required)

Check any that apply. Yes, lambs, kids and non-pregnant ewes/does Yes, rams/bucks for reproduction Yes, pregnant ewes/does No If "Yes, lambs, kids and non-pregnant ewes/does" is chosen, go to the next question. If "Yes, rams/bucks for reproduction" is chosen, go to question 3. If "Yes, pregnant ewes/does" is chosen, go to question 4. If "Yes, lactating ewes/does" is chosen, go to question 5.
If "No", go to question 16.
2. How many times (number of purchases) in the past 2 years were ewe lambs/doelings purchased? (required)
If less than once every 2 years, use decimals e.g. 0.5 for once every two years.
3. How many times (number of purchases) in the past 2 years were rams/bucks for reproduction purchased? (required)
If less than once every 2 years, use decimals e.g. 0.5 for once every two years.
4. How many times (number of purchases) in the past 2 years were pregnant ewes/does purchased? (required)
If less than once every 2 years, use decimals e.g. 0.5 for once every two years.
5. How many times (number of purchases) in the past 2 years were lactating ewes/does purchased? (required)
If less than once every 2 years, use decimals e.g. 0.5 for once every two years.

6. Where did you purchase your sheep and goats in the last 2 years? *(required)*

Check any that apply.

- □ A single supplier who houses animals from the same origin
- □ A single supplier who houses animals from different origins
- □ From a salesman or through markets
- □ From multiple sources

If "A single supplier who houses animals from different origins" or "From a salesman or through markets" is chosen, go to question 8.

7. Before the sheep/goats arrive on your farm, is contact between them and animals from other farms possible (e.g. during transportation or holding)? *(required)*

Select one option.

- o Yes
- \circ No
- I don't know

8. When sheep/goats are bought from another farm, is the supplier's health status known <u>before</u> purchase? *(required)*

A herd/flock with a known health status is a herd from which it is known if it is free from specific diseases or not. If the herd/flock is free from specific diseases, it therefore also guarantees that the delivered products (animals) originating from this herd are also free of these diseases.

Select one option.

- Always
- Sometimes
- Never

9. Is the level of maternal immunity checked when buying lambs/doelings? (required)

- Always
- Sometimes
- Never
- Not applicable, I don't buy lambs/doelings

10. Are the sheep/goats tested for specific diseases before being added to your herd/flock (i.e. entry protocol or other tests for e.g. CAE, *Salmonella,...*)? *(required)*

I.e. tests before purchase or during the quarantine period.

Select one option.

- Always
- Sometimes
- Never

11. Are all new sheep/goats put into quarantine when arriving on your farm? (required)

Quarantine is a period and place in which you isolate/separate animals in an area physically separated from other animals already part of the farm herd/flock.

Select one option.

- Always
- Sometimes
- Never/No quarantine area available

If "Never/No quarantine area available" is chosen, go to question 16.

12. What is the minimum duration (in days) of the quarantine period that you applied in the last 2 years? (required)

.....

13. Before entering the quarantine area, are workers required to do the following? *(required)*

	Always	Sometimes	Never
Wear compartment-specific clothes	0	0	0
Wear compartment-specific footwear	0	0	0
Wash hands/use gloves	0	0	0

14. Is the quarantine area ... before the introduction of new sheep/goats? *(required)*

Cleaning: the physical removal of foreign material, including a wet cleaning step. Disinfection: cleaning with chemical agents that inactivate organisms. If your quarantine area is a separate pasture, select the "Never" option with Cleaned and Disinfected.

	Always	Sometimes	Never
Emptied	0	0	0
Cleaned	0	0	0
Disinfected	0	0	0

15. Are the hooves of the new animals inspected and treated against foot rot (e.g. disinfection footbaths, vaccination) prior to or during their quarantine period? *(required)*

Select one option.

- o Yes
- o No

16. Are there any sheep/goats that leave the farm and return afterwards? *(required)*

E.g. for shows, competitions, breeding, or stock market. This does <u>not</u> include going on pasture.

Select one option.

- o Yes
- ∘ No

If "No" is chosen, go to question 18.

17. Are these returning sheep/goats put into quarantine? (required)

Quarantine is a period and place in which you isolate/separate animals in an area physically separated from other animals.

Select one option.

- Always
- Sometimes
- Never/No quarantine area available

18. Are any of the sheep/goats on your farm home-bred? If yes, how? (required)

Select one option.

- Artificial insemination/embryo transplantation
- Natural service
- Both artificial insemination/embryo transplantation and natural service
- No

If "Artificial insemination/embryo transplantation" is chosen, go to question 20. If "No" is chosen, go to question 21.

19. Are the rams/bucks tested for sexually transmitted diseases (e.g. Chlamydia, Brucella ovis,...)? *(required)*

Select one option.

- Always
- Sometimes
- Never

If "Natural service" was chosen in question 18, go to question 21.

20. When semen is purchased from a farm/institution, is the supplier's health status known before purchase? *(required)*

A herd/flock with a known health status is a herd from which it is known if it is free from specific diseases or not. If the herd/flock is free from specific diseases, it therefore also guarantees that the delivered products (animals) originating from this herd are also free of these diseases.

- o Yes, the supplier's health status is higher than my own status
- o Yes, the supplier's health status is equal to my own status
- Yes, the supplier's health status is lower than my own but I take precautious measures
- \circ No
- o Not applicable, semen is not purchased
- I don't know (information not readily available)

B. Transport of animals and removal of deadstock

21. Is the farm site **physically** divided into a clean and dirty area? (required)

The clean area is the area of the production site with restricted access, i.e., where only animals from the farm, persons after they have applied the hygienic measures in the hygiene lock, and farm-specific materials and vehicles are allowed. The dirty area comprises all other parts of the farm to which visitors, external vehicles, ... have access. The dirty area also includes the carcass storage facility.

Select one option.

- Yes
- \circ No
- I don't know

22. How are animals transported to and from the farm? (required)

Select one option.

- o Internal (farm-owned) transport vehicles
- External transport vehicles
- A combination of internal and external transport vehicles
 If "Internal (farm-owned) transport vehicles" is chosen, go to question 26.

23. Do **external** vehicles have to be sanitized before entering the farm? *(required)*

Select one option.

- o Yes, the entire outside of the vehicle
- Yes but only the tyres (e.g. passing through clean transport baths)
- Sometimes/Only when there is a disease outbreak
- o No

24. Does the driver have access to the animal holding area and is direct contact with your animals possible when loading the animals? *(required)*

Select one option.

- o Yes
- ∘ No

If "No" is chosen, go to question 26.

25. Does the driver receive and wear farm-specific clothing and shoes? *(required)*

Select one option.

- Always
- Sometimes
- The driver brings his/her own cleaned and disinfected clothing and shoes/disposable overshoes
- o The driver stays inside the transport vehicle
- Never

26. When sheep/goats are delivered to the farm, are only the animals that are supposed to be delivered to your herd/flock in the transport vehicle? (required)

Select one option.

- Always
- Sometimes
- Never

27. Is the transport vehicle empty on arrival at the farm? (required)

Select one option.

- Always
- Sometimes
- Never
- o I don't know

If an option different from "Always" is chosen, go to question 29.

28. Is the transport vehicle on the <u>inside</u> always cleaned and disinfected before loading animals? *(required)*

Select one option.

- o It's cleaned and disinfected
- o It's only cleaned
- \circ No
- o I don't know

29. Is there a dedicated deadstock storage space? (required)

Select one option.

- o Yes
- \circ No
- Not relevant, deadstock is immediately processed

If "No" or "Not relevant, deadstock is immediately processed" is chosen, go to question 32.

30. Is the deadstock storage space enclosed and well maintained to prevent vermin, pets, or wild animals from accessing the deadstock? *(required)*

Select one option.

- o Yes
- Sometimes/partially
- ∘ No

31. Is the deadstock storage space cleaned and disinfected after each use? *(required)*

Select one option.

- o Cleaned and disinfected
- o Only cleaned
- ∘ No

32. What happens with the deadstock? (required)

Composting is a natural decomposition process for organic wastes. Burying might be prohibited in your country. Please be aware that these surveys are used around the world.

Select one option.

- Deadstock is composted
- o Deadstock is buried/burned
- Deadstock is stored and collected by a rendering company

If "Deadstock is buried/burned" is chosen, go to question 34;

if "Deadstock is stored and collected by a rendering company" is chosen, go to question 35.

33. Is deadstock composted in a closed system? (required)

Select one option.

- Yes, dead animals are composted inside a building that can be completely closed
- Yes, dead animals are composted outside, enclosed with plastic
- ∘ No

Go to question 36.

34. How are dead animals buried/burned? (required)

Buried in appropriate soil: deep burial in pits away from a groundwater source.

Select one option.

- Dead animals are burned in an approved incinerator on the farm
- o Dead animals are buried in the appropriate soil on the farm
- o Other

Go to question 36.

35. Can deadstock be collected by the rendering company without them entering the clean area of the farm? *(required)*

Select one option.

- ∘ Yes
- o No

36. Is deadstock manipulated with gloves, or are hands cleaned and disinfected after the manipulation of deadstock? *(required)*

- ∘ Always
- Sometimes
- Never

C. Feed and water

37. Are all feed storage facilities (e.g. ensilaged feed, feed mixer, concentrates, ...) protected from pets and vermin? *(required)*

Select one option.Yes, from petsYes, both from pets and verminNo

38. Does the feed originate from a feeding company where it meets certain hygienic requirements (e.g. *Salmonella*-free, heat treatment)? *(required)*

Check any that apply.
☐ Yes
☐ No
☐ I don't know
☐ Not applicable, the animals get own produced feed/natural crops

39. Are feeding utensils used for animal feed purposes only (i.e. there's no double use e.g. for manure)? *(required)*

Select one option.

- Always
- Sometimes
- Never

40. How often is the animal drinking water system (i.e. the closed water lines as well as the open drinking bowls for the animals) cleaned and/or disinfected? (required)

If this differs for the water lines and drinking bowls, please fill in the worst-case scenario.

- Weekly
- Monthly
- Multiple times per year
- One time per year or less
- Never

41. How frequently is a bacteriological analysis of the animal drinking water performed? *(required)*

Select one option.

- Yearly or more frequent
- Every two years
- Less frequent than every two years
- Never
- Never, I have a municipal water supply

If "Never" or "Never, I have a municipal water supply" is chosen, go to question 43.

42. At which location are the water samples for the bacteriological analyses taken? *(required)*

- o Both at the source/storage tank and the last drinker (farthest away from the source)
- At the last drinker
- At the source
- Other (e.g. drinker at the beginning of the line)

D. Visitors and farmworkers

Here we focus on the main housing facility and not any temporary constructions that could be used when grazing on locations far away from the location of the barn.

43. Does the farm follow a written biosecurity plan? (required)

Select one option.

- o Yes
- ∘ No

44. Did the farmer and/or farmworkers receive training on biosecurity in the last five years? (required)

Training can be a diploma, e-learning courses, workshops, or webinars. The training can also be given by internal personnel as long as they have received certified training on their end.

If you do not have any farmworkers, select answer option "Yes, both have received training on biosecurity" when the farmer has received training or select answer option "Neither of them has received training on biosecurity" when the farmer has not received training.

Select one option.

- o Both have received training on biosecurity
- Only one of them has received training on biosecurity
- Neither of them has received training on biosecurity

45. Are visitors obliged to notify their presence before entering the barn/shed (e.g. by signing a visitor's register)? *(required)*

Select one option.

- Yes
- \circ No

46. Is there a separate space (e.g. hygiene lock) available for changing boots and clothes and washing hands/putting on gloves? *(required)*

Select one option.

- Yes
- \circ No

47. Are there any farmworkers who also work at (or frequently visit) other ruminant farms? *(required)*

Frequently: at least once a week.

- Yes
- ∘ No
- I don't know

48. Before being allowed to enter the farm, do **farmworkers** have to...? (*required*)

	Always	Sometimes	Never
Wear farm-specific clothes/bring clean clothes	0	0	0
Wear farm-specific footwear/bring clean and disinfected footwear	0	0	0
Wash and disinfect their hands/use gloves	0	0	0

49. Before being allowed to enter the farm, do **work-related professionals** (e.g. veterinarian, hoof trimmer, wool trimmer) have to...? (*required*)

	Always	Sometimes	Never
Wear farm-specific clothes/bring clean clothes	0	0	0
Wear farm-specific footwear/bring clean and disinfected footwear/disposable overshoes	0	0	0
Wash and disinfect their hands/use gloves	0	0	0
Clean and disinfect their materials (select "Always" if not applicable)	0	0	0

50. Are there any other (non-professional) visitors that can enter the farm and come into contact with the sheep/goats? (*required*)

I.e. scholars, students, family, neighbours, ...

Select one option.

- Yes
- ∘ No

If "No" is chosen, go to question 52.

51. Before being allowed to enter the farm, do **non-professional visitors** have to...? (*required*)

	Always	Sometimes	Never
Wear farm-specific clothes/bring clean clothes	0	0	0
Wear farm-specific footwear/bring clean and disinfected footwear/disposable overshoes	0	0	0
Wash and disinfect their hands/use gloves	0	0	0

E. Infrastructure, location and housing

52. Is an insect control programme present on the farm? (required)

Control programme: a regular protocol containing the control measures.

Select one option.

- Yes
- \circ No

53. Is an effective pest control programme in place on the farm? *(required)*

Select one option.

- A professional pest control company is hired periodically
- o The farm has established its own pest control programme
- o Pest control is performed only if an infestation is noticed (e.g. via rodent traps)
- Cats are being used
- o There is no pest control programme currently in place on the farm

54. Is a bird control programme present on the farm (netting, air inlets covered)? *(required)*

Select one option.

- Yes
- Partially
- o No
- 55. Do the sheep/goats, including the youngstock, have access to an outside area (incl. a restricted outside area) during their lifetime? *(required)*

Select one option.

- o Yes
- Sometimes
- \circ No

If "No" is chosen, go to question 58.

56. Is grazing performed? (required)

Select one option.

- o Yes
- o No
- 57. When your sheep/goats are outside, do they have access to natural water bodies (e.g. brooks and ponds)? *(required)*

- o Yes
- o No

58. Is the farm enclosed (fenced) to prevent contact between the farm's animals and other animals, wildlife, or people? <i>(required)</i>
Select one option. o Yes o Partially o No
59. Are there, besides sheep/goats, any other farm animals (cattle, poultry, pigs, llamas,) kept on your farm for farming purposes? (required)
Select one option. o Yes o No If "No" is chosen, go to question 61.
60. Do the sheep/goats share the same outdoor area with other farm animals? <i>(required)</i>
Select one option. o Yes o No
61. Do pets have access to the barns/sheds? (required)
Select one option. O Dogs (and cats) Only cats None
62. Do the farmer or any of the farmworkers keep sheep/goats for personal (i.e. non-commercial) purposes? <i>(required)</i>
Select one option. ○ Yes ○ No
63. Are the indoor housing areas (incl. storage of feed and bedding material) enclosed? <i>(required)</i>

Select one option.

O Yes

∘ No

64. Is there manure (from goats, sheep, cattle, pigs, ...) from your own farm or manure that originated from other farms being spread on the surrounding farmlands that are within 500 metres of your farm or pastures? (required)

- ∘ Yes
- ∘ No
- I don't know

F. Disease management

65. Is there a plan for strategic treatments (e.g. vaccines, deworming, additives, pre- or probiotics) and is this evaluated on an annual basis by a veterinarian/health advisor? *(required)*

Select one option.

- Yes
- \circ No

66. Is a regular (i.e. at least once a year) evaluation made of the disease status of the farm (e.g. serology, trends in slaughterhouse findings, etc.) in consultation with a veterinarian/health advisor? *(required)*

Select one option.

- Yes, for regulated and non-regulated diseases
- Yes, for regulated diseases
- \circ No

67. Are sick sheep/goats isolated in a hospital pen, physically separated from the healthy animals? *(required)*

Isolated: physically separated with no possible contact with healthy animals.

Select one option.

- Yes
- Partially
- No

If "No" is chosen, go to question 74.

68. Is equipment and material (e.g. buckets, thermometer, cleaning and feeding utensils, gastric tubes, ...) available specifically for the sick sheep/goats in the hospital pen? *(required)*

Select one option.

- Yes
- o No

If "No" is chosen, go to question 70.

69. Is this specific equipment always cleaned and disinfected before a new animal enters the hospital pen? *(required)*

- It's cleaned and disinfected
- o It's only cleaned
- \circ No

70. Before entering the hospital pen, do workers have to take the following measures? *(required)*

	Always	Sometimes	Never
Change into compartment-specific clothes	0	0	0
Change into compartment-specific footwear	0	0	0
Wash hands/use gloves	0	0	0

71. Is the hospital pen empty of bedding material after each use? *(required)*

Select one option.

- Yes
- ∘ No

If "No" is chosen, go to question 73.

72. Is the hospital pen ... before each new introduction of sick sheep/goats? *(required)*

	Always	Sometimes	Never
Cleaned	0	0	0
Disinfected	0	0	0
Dried	0	0	0

73. Are the sick sheep/goats consistently handled/visited after the healthy sheep/goats? (required)

Select one option.

- o Yes
- ∘ No

74. Can a group of sick sheep/goats be completely separated from the other sheep/goats in case of a disease outbreak? *(required)*

- Always
- Sometimes
- Never

75. Concerning the use of injection needles for <u>treatments</u> by the farmer/farmworkers, what is the strategy followed? *(required)*

Select one option.

- Single-use needles
- o Reusable needles (separate per age group)
- Reusable needles (no separation per age group)
- Reusable needles that are disinfected in between groups *If "Single-use needles" is chosen, go to question 77.*

76. After how many animals are injection needles changed (for treatments)? *(required)*

If this differs	per age category	, please fill in th	e worst-case scenario.

G. Lambing/Kidding management

The management during the process of giving birth to lambs/kids.

77. Are lambing/kidding pens available on the farm? (required)

Select one option.

- Yes
- ∘ No

If "No" is chosen, go to question 80.

78. Are workers entering the area where lambing/kidding takes place required to take the following measures? *(required)*

	Always	Sometimes	Never
Wear compartment-specific clothes	0	0	0
Wear compartment-specific footwear	0	0	0
Wash hands/use gloves	0	0	0

79. Is the area where lambing/kidding takes place ... before the introduction of sheep/goats? *(required)*

	Always	Sometimes	Never
Cleaned	0	0	0
Disinfected	0	0	0
Dried	0	0	0

80. When helping with the lambing/kidding, are the hands and the obstetric materials always washed/cleaned and disinfected before and after each lambing? *(required)*

E.g. buckets, lambing/kidding ropes, prolapse harness, ...

Select one option.

- Cleaned and disinfected
- Only cleaned
- ∘ No

81. In the case of abortions, are the hands and the materials always washed/cleaned and disinfected (before and after)? *(required)*

E.g. buckets, lambing/kidding ropes, prolapse harness, ...

- Cleaned and disinfected
- Only cleaned
- o No

82. In the case of abortions, are specific measures taken (e.g. disinfecting the area, keeping the herd/flock away from that area)? *(required)*

Select one option.

- o Yes
- o No

83. When does separation of the lamb/kid from the mother take place? *(required)*

Select one option.

- Immediately after birth
- Within 1-2 days of the lamb/kid's birth
- Within 1-2 weeks of the lamb/kid's birth
- o No separation, the lamb/kid remains with the mother as a suckling lamb/kid
- o Other

84. If several abortions take place, is the ewe/doe tested afterwards (i.e. abortion protocol)? *(required)*

Select one option.

- Always
- Sometimes
- Never

85. Where are the foetal membranes and fluids disposed of after a lambing/kidding/abortion? *(required)*

If multiple disposal ways occur, choose the most used one.

- o They're left in the lambing/kidding area or where the abortion took place
- They're eaten by sheep/goats/dogs/wild animals/other
- They're put on the manure pile/slurry pit
- They're put in the deadstock storage place/waste container
- o Buried
- Other

H. Lamb/Kid management

In the event that something happens with the mother, or if there is a combination of artificial rearing and lambs/kids that stay with the mother, answer the questions below according to the predominant practice.

86. How many <u>millilitres</u> of colostrum are administered to the lamb/kid within the first six hours of birth? *(required)*

If you don't know how much colostrum is given, fill in 0. If the lamb/kid stays with the mother, fill in 250ml.

.....ml

87. Is the colostrum given either from the mother or other sheep/goat of the farm or is external colostrum provided? *(required)*

Select one option.

- Sheep/goat colostrum from the farm
- Cow colostrum from the farm
- Sheep/goat/cow colostrum from an external source

88. Is the equipment used for colostrum administration (e.g. tubes, bottles, etc.) cleaned and disinfected after each use? *(required)*

Select one option.

- Cleaned and disinfected
- Only cleaned
- o I make use of single-use materials
- \circ No
- Not applicable, the lambs/kids stay with their dam

89. Are milk feeding buckets with multiple teats reused between lambs/kids during the same feeding session? *(required)*

Select one option.

- o Yes
- ∘ No
- Not applicable, the lambs/kids stay with their dam

90. Are the lambs/kids ever fed with waste milk (i.e. milk that is not suitable for the milk tank, e.g. with antibiotic residues)? *(required)*

- Always
- Sometimes
- Never

91. Are the feeding buckets (incl. teats) cleaned after each feeding? *(required)*

Select one option.

- o Yes
- \circ No
- o Not applicable, the lambs/kids stay with their dam

92. Are the kids/lambs mixed between different age groups? (required)

Select one option.

- Never
- Within the first hours
- Within the first two days
- After the first two days

93. Are the lambs/kids housed in individual pens/boxes? (required)

Select one option.

- o Yes
- ∘ No

If "No" is chosen, go to question 96.

94. Is the lamb/kid housing empty after each use? (required)

Select one option.

- Yes
- ∘ No
- Not applicable

If "No" or "Not applicable" is chosen, go to question 96.

95. Is the lamb/kid housing ... before each new introduction of lambs/kids? *(required)*

	Always	Sometimes	Never
Cleaned	0	0	0
Disinfected	0	0	0
Dried	0	0	0

I. Adult sheep/goat management

96. Do the ewes/does have to regularly pass through a hoof disinfection footbath? *(required)*

Select one option. o Yes o No o Only when problems appear (e.g. foot rot)
97. How many times per year is the adult barn/shed cleaned? (required)
This implies a dry (removal of all dirt and bedding material) and wet cleaning step.
98. How many times <u>per year</u> is the adult barn/shed disinfected? <i>(required)</i>

J. Working organisation and equipment

99. Are the sheep/goats grouped per age in the barn/shed? (required)

To answer "Yes", sheep/goats should be separated into at least the following groups; lambs/kids on milk, weaned lambs/kids, adult animals.

Select one option.

- o Yes
- o No

If "No" is chosen, go to question 103.

100. Are ... between age groups? (required)

	Always	Sometimes	Never
Compartment-specific clothes worn	0	0	0
Compartment-specific footwear worn	0	0	0
Hands washed/gloves worn	0	0	0

101. Which working sequence is used by the farmworkers in normal circumstances? *(required)*

Select one option.

- From youngest to oldest animals
- From oldest to youngest
- Another working sequence
- There is no working sequence

102. Is there clearly marked/identified and separate equipment (e.g. drinkers, feeders) available for each age group? *(required)*

Select one option.

- Yes
- o Yes, but not marked/identified
- \circ No

103. Is there any equipment (e.g. hoof trimming equipment, dehorning devices, hayracks) being shared with other farms that enter the barns/sheds and/or has contact with your sheep/goats? (required)

Select one option.

- o Yes
- ∘ No

If "No" is chosen, go to the end of this survey.

104. What measures do you take before this shared equipment enters your barn/shed and/or comes into contact with your sheep/goats? *(required)*

- o Cleaning and disinfection of the equipment
- o Only cleaning of the equipment
- None