

# BIOCHECK PIG

## Commercial indoor pig production V4.0



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# Glossary

**Commercial:**

Any farm that is raising animals intended to make a profit, irrespective of its size (number of animals present).

**Compartment:**

A physically defined unit or area where one group of pigs is being kept (i.e. you can have multiple compartments of the same animal category). Often, physical contact is possible between the animals of different pens within this compartment.

**Deadstock or carcasses:**

Deceased animals on the establishment.

**Establishment:**

The entire farm premises, including all indoor animal facilities and the entire outdoor area surrounding the farm. It includes premises with any number of pigs.

**Pen:**

The smallest unit in which pigs are being kept.

**Working lines/working routine route:**

A specific order in which the work on the establishment is carried out.

*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. Which of the following animal categories are present on the farm?  
(required)

*Check any that apply.*

- ☐ Sows/gilts/boars
- ☐ Suckling piglets
- ☐ Weaned piglets
- ☐ Slaughter pigs

II. Are there, besides the pigs, any other farm animals present on your farm?

*Select one option.*

- ☐ Yes
- ☐ No

*If "No" is chosen, go to question IV.*

III. What other farm animal(s) is (are) present on your farm?

*Check any that apply.*

- ☐ Cattle
- ☐ Poultry
- ☐ Horses
- ☐ Sheep/goats
- ☐ Other

IV. How many years of experience in keeping pigs does the person in charge have?

.....

V. What is the number of people (full-time or part-time) that are taking care of the pigs?

.....

VI. How old (in years) is the oldest building in which pigs are being kept?

*If the building was renovated, give the age before the renovation.*

.....

VII. How old (in years) is the newest building in which pigs are being kept?

*If the building was renovated, give the age before the renovation.*

.....

## A. Purchase of breeding pigs, weaned piglets and semen

1. Are breeding pigs (sows/gilts/boars) purchased? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

*If "No" is chosen, go to question 10.*

2. Are the breeding pigs (during the past 2 years) always bought from the same supplier? *(required)*

*Select one option.*

- ☐ Always the same supplier
- ☐ Sometimes a different supplier

3. Whenever breeding pigs are bought from another farm, is the supplier's health status known before purchase? *(required)*

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

*The supplier's health status is higher than the one of the farm whenever the supplier has a certification that he is free from more diseases than the farm.*

*Select one option.*

- ☐ Yes, the supplier's health status is higher than my own status
- ☐ 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 precautionary measures
- ☐ Yes, the supplier's health status is lower than my own and no precautionary measures are taken
- ☐ No
- ☐ I don't know

4. Is it verified (e.g. written document or other statements) whether the transport vehicle that brings the breeding pigs to the farm is cleaned and disinfected before loading? *(required)*

*If the transport vehicle looks visually clean but the transporter cannot provide evidence of the cleaning and disinfection, select answer option "I don't know".*

*Select one option.*

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

5. How many times per year are breeding pigs delivered to your farm? (required)

Select one option.

- ☐ Twice or less
- ☐ 3 to 6 times
- ☐ 7 to 12 times
- ☐ More than 12 times

6. Are all new breeding pigs quarantined in an area separate from the rest of the herd? (required)

*The quarantine area can be in the same building, but it should be completely separate (no physical contact) from the rest of the animals.*

Select one option.

- ☐ Yes
- ☐ No

If "No" is chosen, go to question 10.

7. Is strict all-in management practised in the quarantine area? (required)

*All-in: all the animals that have to be quarantined are put into the quarantine area at the same moment. It's crucial that no new animals (coming from another farm) are introduced in the quarantine area before it is emptied.*

Select one option.

- ☐ Yes
- ☐ No

8. What is the minimum duration (in days) of the quarantine period that you applied in the last year? (required)

.....

9. Is there a separate hygiene lock for the quarantine area? (required)

*A hygiene lock is a facility, where among others, you can change into specific clothes/boots and clean/disinfect your hands.*

Select one option.

- ☐ Yes
- ☐ No

10. Are piglets purchased? (required)

Select one option.

- ☐ Yes
- ☐ No

If "No" is chosen, go to question 15.

11. Are the piglets (during the past 2 years) always bought from the same supplier? *(required)*

*Select one option.*

- Always the same supplier
- Sometimes a different supplier

12. Whenever piglets are bought from another farm, is the supplier's health status known before purchase? *(required)*

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

*The supplier's health status is higher than the one of the farm whenever the supplier has a certification that he is free from more diseases than the farm.*

*Select one option.*

- Yes, the supplier's health status is higher than my own status
- 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 precautionary measures
- Yes, the supplier's health status is lower than my own and no precautionary measures are taken
- No
- I don't know

13. Is it verified (e.g. written document or other statements) whether the transport vehicle that brings the piglets to the farm is cleaned and disinfected before loading? *(required)*

*If the transport vehicle looks visually clean but the transporter cannot provide evidence of the cleaning and disinfection, select answer option "I don't know".*

*Select one option.*

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

14. How many times per year are piglets delivered to your farm? *(required)*

*Select one option.*

- Three times or less
- 4 to 6 times
- 7 to 12 times
- More than 12 times

## 15. Does breeding occur naturally or artificially? (required)

*Select one option.*

- Natural breeding
- Artificial insemination
- Both

*If "Artificial insemination" is chosen, go to question 17.*

## 16. Which boars are used for natural breeding? (required)

*Check any that apply.*

- ☐ Own boars that remain on the farm
- ☐ Own boars that are housed on (a) different farm(s)
- ☐ Breeding boars that are used on different farms

*If "Natural breeding" was chosen in question 15, go to question 18.*

## 17. Whenever semen is purchased from a farm/boar station, is the supplier's health status known before purchase? (required)

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

*The supplier's health status is higher than the one of the farm whenever the supplier has a certification that he is free from more diseases than the farm.*

*Select one option.*

- Yes, the supplier's health status is higher than my own status
- 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 precautionary measures
- Yes, the supplier's health status is lower than my own and no precautionary measures are taken
- No
- I don't know

## B. Transport of animals, removal of deadstock and manure

18. Is the establishment 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.*

Select one option.

- ☐ Yes
- ☐ No
- ☐ I don't know

19. Are **slaughter pigs** transported from your farm to the slaughterhouse? (required)

Select one option.

- ☐ Yes
- ☐ No

*If "No" is chosen, go to question 22 if sows are present, question 25 if piglets are present, otherwise go to question 28.*

20. Is the transport vehicle for the **slaughter pigs** empty before loading? (required)

Select one option.

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

*If an option **different** from "Always" is chosen, go to question 22 if sows are present, question 25 if piglets are present, otherwise go to question 28.*

21. Is it verified (e.g. written document or other statements) whether the transport vehicle for the **slaughter pigs** is cleaned and disinfected before loading? (required)

*If the transport vehicle looks visually clean but the transporter cannot provide evidence of the cleaning and disinfection, select answer option "I don't know".*

Select one option.

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



22. Are **sows** transported from your farm either to other farms or to the slaughterhouse? (required)

Select one option.

- ☐ Yes
- ☐ No

If "No" is chosen, go to question 25 if piglets are present, otherwise go to question 28.

23. Is the transport vehicle for the **sows** empty before loading? (required)

Select one option.

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

If an option **different** from "Always" is chosen, go to question 25 if piglets are present, or otherwise go to question 28.

24. Is it verified (e.g. written document or other statements) whether the transport vehicle for the **sows** is cleaned and disinfected before loading? (required)

If the transport vehicle looks visually clean but the transporter cannot provide evidence of the cleaning and disinfection, select answer option "I don't know".

Select one option.

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

25. Are **piglets** transported from your farm to other farms (e.g. to a finisher site)? (required)

Select one option.

- ☐ Yes
- ☐ No

If "No" is chosen, go to question 28.

26. Is the transport vehicle for the **piglets** empty before loading? (required)

Select one option.

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

If an option **different** from "Always" is chosen, go to question 28.

27. Is it verified (e.g. written document or other statements) whether the transport vehicle for the **piglets** is cleaned and disinfected before loading? *(required)*

*If the transport vehicle looks visually clean but the transporter cannot provide evidence of the cleaning and disinfection, select answer option "I don't know".*

Select one option.

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

28. Does the driver have access to the animal holding areas and/or is direct contact with the animals possible when loading the animals (slaughter pigs, sows, piglets)? *(required)*

Select one option.

- ☐ Yes
- ☐ No
- ☐ Farmer and/or farm personnel is the driver, i.e. own transport

29. 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
- ☐ The driver stays inside the transport vehicle
- ☐ Never

30. Are the pigs loaded from a separate loading area or directly from the pens/central corridor? *(required)*

*The separate loading area (or loading bay) is a physically separated location where the animals are brought before/during loading.*

Select one option.

- ☐ Separate loading area
- ☐ Pen/central corridor

*If "Separate loading area" is chosen, go to question 32.*

31. Are pigs ever returned to the pens (e.g. by walking back or by being placed back) after they were in the transport vehicle? *(required)*

Select one option.

- ☐ Yes
- ☐ No

32. Is manure transported and disposed of through the dirty access road? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

33. Are farm-specific hoses for the removal of manure from the manure pit available on the farm (i.e. are hoses for the removal of manure available that always stay at the farm)? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No
- ☐ Not applicable

34. Is there a dedicated deadstock storage space, physically separated from the animal facilities? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Yes, but it is not physically separated from the live animals
- ☐ No
- ☐ Not relevant, deadstock is immediately processed

*If "No" or "Not relevant, deadstock is immediately processed" is chosen, go to question 39.*

35. Is the deadstock storage space located in the dirty area of the farm? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

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

*Select one option.*

- ☐ Yes
- ☐ Sometimes/partially
- ☐ No

*If "No" or "Sometimes/partially" is chosen, go to question 38.*

37. Is the deadstock storage cooled? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

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

Select one option.

- ☐ Cleaned and disinfected
- ☐ Only cleaned
- ☐ Only disinfected
- ☐ Not cleaned nor disinfected

39. What happens with 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
- ☐ Deadstock is buried/burned
- ☐ Deadstock is stored and collected by a rendering company

*If "Deadstock is buried/burned" is chosen, go to question 41;*

*if "Deadstock is stored and collected by a rendering company" is chosen, go to question 42.*

40. 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 e.g. plastic
- ☐ No

*Go to question 43.*

41. 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
- ☐ Dead animals are buried in the appropriate soil on the farm
- ☐ Other

*Go to question 43.*

42. Can deadstock be collected by the rendering company without them entering the premises of the farm (e.g. from the public road)? (required)

Select one option.

- ☐ Yes
- ☐ No

43. Does the farmer/farmworker change footwear when entering the deadstock area? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Sometimes
- ☐ No

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

*Select one option.*

- ☐ Always
- ☐ Sometimes
- ☐ Never

## C. Feed, water and equipment supply

### 45. What type of feed is used on the farm? (required)

*\*Swill feeding might be prohibited in your country. Please be aware that these surveys are used around the world.*

*Check any that apply.*

- ☐ Commercial feed
- ☐ Own-produced or natural crops (e.g. acorn)
- ☐ Swill feed uncooked\*
- ☐ Swill feed cooked\*

*If "Commercial feed" is checked, proceed to question 46. Otherwise, go to question 49.*

### 46. Does animal feed originate from a feeding company meeting specific hygienic requirements (e.g. *Salmonella*-free, heat treatment such as pelletizing)? (required)

*Select one option.*

- ☐ Yes
- ☐ No
- ☐ I don't know

### 47. Can the feeding company fill up the feed silos/storage without entering the clean 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
- ☐ No

### 48. Does the feed supplier have access to the animal holding areas where direct contact with the pigs is possible? (required)

*Select one option.*

- ☐ Yes
- ☐ No

### 49. Is the water delivery system (incl. a water header tank) covered at all times? (required)

*Select one option.*

- ☐ Yes
- ☐ Partially
- ☐ No

50. How frequently is a bacteriological analysis of the 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 52.

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

Select one option.

- ☐ Both at the source 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)
- ☐ I don't know

52. Is a specific and well-functioning pass-through for materials entering the buildings of the farm (e.g. a UV cabinet for utensils and tools) used? *(required)*

*Materials can be mobile phones, documents, pens, diagnostic tools, etc.*

Select one option.

- ☐ Yes
- ☐ No

53. Is there any equipment (small or large) shared with other farms that enter your farm and/or has contact with your pigs? *(required)*

Select one option.

- ☐ Yes
- ☐ No
- ☐ I don't know

If "No" or "I don't know" is chosen, go to question 55.

54. Are specific measures taken for the introduction of equipment from other farms? *(required)*

*E.g. cleaning and disinfection, quarantine period at a specific location.*

Select one option.

- ☐ Yes
- ☐ No

## D. Visitors and farmworkers

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

*A biosecurity plan should at least contain the following elements: the critical aspects/risks associated with the farm, and prioritization of farm-specific biosecurity implementation with regular (at least annual) revisions for improvement.*

*Select one option.*

- ☐ Yes
- ☐ No

### 56. Did the farmer and/or farmworkers receive training on biosecurity in pig production 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. If the farmer has not received training, select answer option "Neither of them has received training on biosecurity".*

*Select one option.*

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

### 57. Are visitors obliged to notify and record their presence before entering the animal facilities? (required)

*I.e. a closed gate so a visitor needs to call someone/ring a bell to get access, the obligation to sign a register book, ...*

*Select one option.*

- ☐ Yes
- ☐ No

### 58. Is there a hygiene lock available that is always used by visitors when they enter the animal facilities? (required)

*The hygiene lock is a room where, among others, you can change into farm-specific clothes/footwear and wash/disinfect your hands.*

*Select one option.*

- ☐ Yes
- ☐ There is a hygiene lock present, but it is not always used
- ☐ No

*If "No" is chosen, go to question 61.*



59. Are all animal facilities only accessible for visitors through a hygiene lock? (required)

*I.e. there are no alternative ways to enter the animal facilities. One must always go through the hygiene lock.*

Select one option.

- ☐ Yes
- ☐ No

60. Is there a strict separation between the clean and the dirty area of the hygiene lock (e.g. by a physical barrier or a walkthrough shower)? (required)

*The **dirty area** of the hygiene lock is where the farmworkers/visitors enter, store their clothes/footwear, and clean/disinfect their hands. In the **clean area** of the hygiene lock, they can put on farm-specific clothing and footwear. Physical barrier: e.g. wooden plank/bench.*

Select one option.

- ☐ Yes
- ☐ No

61. Is there a shower facility and is it always used by visitors/personnel before they enter the animal facilities? (required)

Select one option.

- ☐ Yes
- ☐ Only for visitors, not for personnel
- ☐ There is a shower facility, but it is not always used
- ☐ There is no shower facility

62. Before being allowed to enter the farm, do visitors and farmworkers have to ...? (required)

	Always	Sometimes	Never
wear available farm-specific clothes/bring clean clothes (if not available)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
wear available farm-specific footwear/bring clean and disinfected footwear (if not available)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
wash and disinfect hands/use gloves	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

63. Are there farmworkers who have contact with pigs other than those on the establishment? (required)

*Pigs at home, on other farms, wild boars, hunting, agricultural shows,...*

Select one option.

- ☐ Yes
- ☐ No

## E. Vermin and bird control

64. Is the outside of the farm buildings (around the walls) paved and clean (i.e. the removal of weeds, waste, ...) so that there are no hiding places for vermin? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Partially
- ☐ No

65. Is a pest control programme in place on the farm? *(required)*

*Select one option.*

- ☐ A professional pest control company is hired periodically
- ☐ The farm has its own periodical pest control programme
- ☐ Pest control is performed only if an infestation/overpopulation is noticed (e.g. via rodent traps)
- ☐ There is no pest control programme

66. Do pets or wild animals have access to the animal facilities (incl. the storage for feed and bedding material)? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Only to some of them
- ☐ No

67. Do birds have access to the animal facilities (incl. the storage for feed and bedding material)? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Only to some of them
- ☐ No

68. Are grids placed on all air in- and outlets? *(required)*

*Grids that are small enough to keep rodents and small birds out.*

*Select one option.*

- ☐ Yes
- ☐ Partially
- ☐ No

## F. Location of the farm

69. Is the farm located in an area with a high or a low density of pigs? *(required)*

*A region with a high density of pigs has an average pig density of >300 pigs/km<sup>2</sup> at the municipality level. If there are multiple pig farms within a 3 km radius of your farm, you are most likely located in a high-density area.*

*Select one option.*

- ☐ Low density
- ☐ High density
- ☐ I don't know

70. Are there any other pig farms within a 500-metre radius (0.3 miles) of your farm? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

71. Is manure from other pig farms being spread on farmlands within a 500-metre radius (0.3 miles) of your farm? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

72. Do transport vehicles carrying animals from other farms often (i.e. minimum once a day) pass on a road less than 100-metre (328 feet) from your farm (e.g. due to the location of a slaughterhouse in the neighbourhood, ...)? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

73. Have wild boars (or their traces) been spotted within a 10-kilometre radius (6.2 miles) of your establishment? *(required)*

*Establishment: the entire farm premises, including all indoor animal facilities and the entire outdoor area surrounding the farm.*

*Select one option.*

- ☐ Yes
- ☐ No
- ☐ I don't know

74. Is the farm enclosed by wild-boar-proof fences? *(required)*

*A wild-boar-proof fence is a double row of fencing made from metal net or wire with a minimum height of 1.5m or a single solid fence made from metal, masonry, or other solid material with a minimum height of 1.5m.*

*Select one option.*

- ☐ Yes
- ☐ No

*If "No" is chosen, go to question 76.*

75. Are the fences inspected on a regular basis (i.e. at least monthly) to identify breaches and repaired if needed? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

## G. Disease management

76. Is there a treatment plan on the farm that is evaluated on an annual basis by a veterinarian/health advisor? *(required)*

*Health advisor: any person who comes to the farm to help improve the health of the animals (e.g. nutritionist, consultant, ...).*

*Check any that apply.*

- ☐ Yes, for vaccination
- ☐ Yes, for deworming
- ☐ Yes, for additives/pre- or probiotics/...
- ☐ No

77. 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)*

*Health advisor: any person who comes to the farm to help improve the health of the animals (e.g. nutritionist, consultant, ...).*

*Select one option.*

- ☐ Yes
- ☐ No

78. Are runt pigs (stay-behinds e.g. due to unclear causes) and/or diseased pigs isolated from the healthy ones or is a strict euthanasia policy used? *(required)*

*Select one option.*

- ☐ Runt pigs are always isolated from the healthy animals
  - ☐ Runt pigs are sometimes isolated from the healthy animals
  - ☐ Runt pigs are not isolated, they always remain within their group
  - ☐ There is a strict euthanasia policy, so there are no/barely any runt pigs
- If "Runt pigs are not isolated, they always remain within their group" or "There is a strict euthanasia policy, so there are no/barely any runt pigs" is chosen, go to question 81.*

79. What happens with the runt pigs after recovery? *(required)*

*Select one option.*

- ☐ They are put back into their original group
- ☐ They are relocated to a younger age group
- ☐ They are kept isolated from the other animals until they leave the farm

80. Are diseased pigs consistently handled/visited after the healthy ones? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

## H. Farrowing and suckling period

Where sows and after farrowing their suckling piglets are housed together.

81. Are the sows washed **before** they are moved into the farrowing unit? *(required)*

*Select one option.*

- ☐ Always
- ☐ Sometimes
- ☐ Never

82. Are suckling piglets systematically transferred between sows (i.e. cross-fostering)? *(required)*

*Select one option.*

- ☐ Yes
- ☐ No

*If "No" is chosen, go to question 85.*

83. Does cross-fostering of suckling piglets between different sows occur once or multiple times per lactation? *(required)*

*Select one option.*

- ☐ Once
- ☐ More than once

84. When does cross-fostering occur? *(required)*

*Check any that apply.*

- ☐ Within 24 hours after farrowing
- ☐ Between 24 and 72 hours after farrowing
- ☐ More than 72 hours after farrowing

85. How many times are the piglets routinely taken by hand (e.g. vaccination, castration, grinding of the teeth, tail docking, ear tagging, ...) between birth and weaning? *(required)*

*Some of the manipulations mentioned in this question might be prohibited in your country. Please be aware that these surveys are used around the world. If multiple manipulations occur at the same moment, you can count this as one occasion.*

.....

86. Are materials/tools for treatment (e.g. castration blade, tail-docker, ear-tagger, injection needles) cleaned and disinfected or replaced between each litter? *(required)*

*Select one option.*

- ☐ Yes
- ☐ Only some of the materials/tools are cleaned and disinfected or replaced
- ☐ No

87. When castrating, are the castration blades/needles disinfected or replaced between different piglets? *(required)*

*Select one option.*

- ☐ The blades/needles are disinfected or replaced after each piglet
- ☐ The blades/needles are disinfected/replaced after several piglets or different blades/needles per pen are used
- ☐ The blades/needles are not disinfected or replaced until blunt
- ☐ Castration is not performed

## I. Nursery unit

Where all weaned piglets are housed together

88. Is strict all-in management practised in each compartment of the nursery unit? *(required)*

*All-in: the animals that move to the same nursery unit are moved there all at once and no new animals are introduced in the nursery unit before it is emptied.*

Select one option.

- ☐ Yes
- ☐ No

89. Are older piglets (from a different farrowing group) sometimes mixed with younger piglets? *(required)*

Select one option.

- ☐ Yes
- ☐ No

90. What is the maximal stocking density of a pen in the nursery unit? *(required)*

Select one option.

- ☐ 0.33 m<sup>2</sup> per animal or more
- ☐ 0.32 to 0.26 m<sup>2</sup> per animal
- ☐ 0.25 to 0.16 m<sup>2</sup> per animal
- ☐ 0.15 m<sup>2</sup> per animal or less

91. Is the nursery unit physically separated (i.e. no direct contact possible) from the other pig units? *(required)*

*I.e. there are no other animal groups present in the same building/area.*

Select one option.

- ☐ Yes
- ☐ No
- ☐ Not applicable

92. Is there a separate hygiene lock for the nursery unit? *(required)*

*A hygiene lock is a facility, where among others, you can change into specific clothes/boots and clean/disinfect your hands.*

Select one option.

- ☐ Yes
- ☐ No



## J. Finishing unit

Where all slaughter pigs are housed together

93. Is strict all-in management practiced in each compartment of the finishing unit? *(required)*

*All-in: animals that move to the same finishing unit are moved there all at once and no new animals are introduced in the finishing unit before it is emptied.*

Select one option.

- ☐ Yes
- ☐ No

94. Are different age groups strictly separated into different (i.e. physically separated) compartments/areas? *(required)*

Select one option.

- ☐ Yes
- ☐ No
- ☐ Not applicable

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

95. Are older slaughter pigs sometimes mixed with younger pigs? *(required)*

Select one option.

- ☐ Yes
- ☐ No

96. What is the maximal pig density of a pen in the finishing unit? *(required)*

*"Regular" slaughter pigs are kept until they are between 90 and 115 kilograms live weight (between 200 and 250 pounds). Heavy slaughter pigs are those that weigh more than 115 kilograms live weight (more than 250 pounds).*

Select one option.

- ☐ 1 or more m<sup>2</sup> per slaughter pig (1.50 m<sup>2</sup> or more per heavy slaughter pig)
- ☐ 0.70 to 0.99 m<sup>2</sup> per slaughter pig (1.10 to 1.49 m<sup>2</sup> per heavy slaughter pig)
- ☐ 0.60 to 0.69 m<sup>2</sup> per slaughter pig (0.80 to 1.09 m<sup>2</sup> per heavy slaughter pig)
- ☐ Less than 0.60 m<sup>2</sup> per slaughter pig (less than 0.80 m<sup>2</sup> per heavy slaughter pig)

## K. Measures between compartments, working lines and use of equipment

97. Are different compartments/age groups present on the establishment? *(required)*

Select one option.

- ☐ Yes
- ☐ No

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

98. Between different compartments/age groups, are the following actions performed? *(required)*

*Compartment: a physically defined unit or area where one group of pigs is being kept (i.e. you can have multiple compartments of the same animal category). Often, physical contact is possible between the animals of different pens within this compartment.*

	Always	Sometimes	Never
Change into specific clothes per compartment/age group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Change into specific footwear per compartment/age group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wash hands/change gloves per compartment/age group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

99. Are either disinfection baths and/or boot washers used between different compartments/units? *(required)*

Select one option.

- ☐ Yes
- ☐ Only for some compartments/units
- ☐ No

100. Which working sequence is used in normal circumstances? *(required)*

Select one option.

- ☐ From young to old animals
- ☐ From old to young animals
- ☐ Another working sequence
- ☐ There is no working sequence

101. Is the equipment that is needed for a specific animal category placed according to the working lines (work routine route) to avoid the equipment being used in any other age category? *(required)*

Select one option.

- ☐ Yes
- ☐ No

102. Are clearly recognizable (e.g. by colors) and separate materials/tools used for each unit or age group? *(required)*

*This question concerns all units (if available): farrowing crates, nursery unit and finishing unit.*

*Select one option.*

- ☐ Yes
- ☐ No

103. Are the pig sorting/driving panels easy to clean (e.g. plastic) and are they regularly (i.e. after every use or at least after every production cycle during the sanitary break) cleaned and disinfected? *(required)*

*Select one option.*

- ☐ Yes, the panels are easy to clean and are regularly cleaned and disinfected
- ☐ The panels are easy to clean but are not regularly cleaned and disinfected
- ☐ The panels are not easy to clean (e.g. wood) but are regularly cleaned and disinfected
- ☐ No, the panels are not easy to clean (e.g. wood) and are not regularly cleaned and disinfected

104. Are specific injection syringes and needles used for each age group? *(required)*

*This question concerns all units (if available): farrowing crates, nursery unit and finishing unit.*

*Select one option.*

- ☐ Both syringes and needles are specific for each age group
- ☐ Only the needles are specific for the age group
- ☐ No
- ☐ Not applicable

105. After how many pigs are the injection needles changed? *(required)*

*This question concerns all units (if available): farrowing crates, nursery unit and finishing unit.*

*If this differs per compartment/age group, please indicate the worst-case scenario.*

*Select one option.*

- ☐ <20
- ☐ 20-49
- ☐ 50-100
- ☐ > 100

## L. Cleaning and disinfection

106. Are the pens/compartments cleaned after each production cycle? *(required)*

*This question concerns all units (if available): farrowing crates, nursery unit and finishing unit.*

- All pens/compartments are cleaned after each production cycle
- Only some of the pens/compartments are cleaned after each production cycle
- The pens/compartments are cleaned after every couple of production cycles
- The pens/compartments are never cleaned

*If "The pens/compartments are never cleaned" is chosen, go to question 112.*

107. Are the pens/compartments soaked with water before the start of the cleaning? *(required)*

*Select one option.*

- Always
- Sometimes
- Never, I only practise dry cleaning

*If "Never, I only practise dry cleaning" is chosen, go to question 109.*

108. Is detergent/soap added to the water during cleaning? *(required)*

*Select one option.*

- Always
- Sometimes
- Never

109. Are the pens/compartments disinfected after each production cycle? *(required)*

*This question concerns all units (if available): farrowing crates, nursery unit and finishing unit.*

*Select one option.*

- All pens/compartments are disinfected after each production cycle
- Only some of the pens/compartments are disinfected after each production cycle
- The pens/compartments are disinfected after every couple of production cycles
- The pens/compartments are never disinfected

110. Are the animal facilities fully dried before new pigs enter? *(required)*

*Select one option.*

- Always
- Sometimes
- Never

111. Is the efficacy of cleaning and disinfection checked (e.g. hygienogram, ATP-metry, swabs, ...)? *(required)*

*A hygienogram is a quantification of the bacterial status of the environment with a contact plate.*

*Select one option.*

- ☐ Always
- ☐ Sometimes
- ☐ Never

112. Are the corridors and the loading area cleaned and disinfected after the pigs are moved? *(required)*

*Select one option.*

- ☐ Cleaned and disinfected after use
- ☐ Only cleaned after use
- ☐ Only disinfected after use
- ☐ Not cleaned nor disinfected after use

113. Is equipment (e.g. sorting/driving panels, spades) cleaned and disinfected after their use? *(required)*

*Select one option.*

- ☐ Always
- ☐ Sometimes/part of the equipment
- ☐ Never

114. Are the feeding systems (feed lines, troughs) cleaned and disinfected after each production cycle? *(required)*

*Select one option.*

- ☐ Cleaned and disinfected after each production cycle
- ☐ Only cleaned after each production cycle
- ☐ Cleaned but not after each production cycle (only occasionally)
- ☐ Never cleaned nor disinfected

115. Is the feed silo/storage cleaned (and disinfected) on the inside? *(required)*

*Select one option.*

- ☐ Multiple times a year
- ☐ Once a year
- ☐ Once every two years
- ☐ Less than once every two years
- ☐ Never
- ☐ There is no feed silo/storage

116. Is the drinking water system cleaned and disinfected on the inside between production cycles? *(required)*

*This excludes the use of continuous low doses of disinfectant during production cycles.*

*Select one option.*

- ☐ Multiple times a year
- ☐ Once a year
- ☐ Once every two years
- ☐ Less than once every two years
- ☐ Never