

## QUESTIONNAIR FOR EPIDEMIOLOGICAL INVESTIGATION ON CASE AND CONTROL FARMS

*(sections of the official ASF-outbreak questionnaire, which were not relevant for the present case control study, were omitted)*

Date of visit:

Name of interviewer:

Case farm identification No:

Address:

Control farm identification No:

### I. INFORMATION OF THE HOLDING

#### 1. General information:

Owner of the holding:            legal entity ☐                      natural person ☐

\_\_\_\_\_  
(Name, surname/company name, address)

Contact phone no.: \_\_\_\_\_

Veterinary confirmation No: \_\_\_\_\_

Name(s) and responsibility of interviewed person: \_\_\_\_\_

#### Control farm: Location

Geographic coordinates:

Straight distance (km, one decimal number) to the ASF case farm: \_\_\_\_\_

Type of pig farming:            commercial ☐ non-commercial ☐

#### 2. Herd type:

- |  |  |
|--|--|
| <input type="checkbox"/> Breeding herd                               | <input type="checkbox"/> Mixed-breed herd    |
| <input type="checkbox"/> Fattening herd                              | <input type="checkbox"/> Piglet farming herd |
| <input type="checkbox"/> Herd of other purpose (specialized company) | <input type="checkbox"/> Farrowing herd      |
| <input type="checkbox"/> Sows before farrowing                       | <input type="checkbox"/> Reproductive herd   |
| <input type="checkbox"/> Other (.....)                               |  |

#### 4. Swine categories and numbers:

Category	Number of pigs
Piglets up to 3 months	
Pigs from 3 to 8 months	
Pigs over 8 months	

Sows (replacement, major, pregnant, not pregnant)	
Boars	
<b>Total</b>	

5. Pig holding is registered in the official data base Yes ☐ No ☐

7. Are other animals present on the farm (indicate number for each species): Yes ☐ No ☐ ;

if "Yes" what animals:

- |  |  |
|--|--|
| <input type="checkbox"/> bovines _____ | <input type="checkbox"/> sheep _____   |
| <input type="checkbox"/> goats _____   | <input type="checkbox"/> poultry _____ |
| <input type="checkbox"/> dogs _____    | <input type="checkbox"/> cats _____    |
| <input type="checkbox"/> horses _____  | <input type="checkbox"/> other _____   |
|  | (specify)                              |

- The other animals leave farm territory (Indicate species) \_\_\_\_\_ Yes ☐ No ☐
- Other animals are kept together in the same premise (the same room/space) (Indicate species) \_\_\_\_\_ Yes ☐ No ☐
- Is there a physical barrier (solid walls without holes, gaps and etc.) between pigs and other animals in the building? Yes ☐ No ☐
- Can pigs and other animals have direct contact with each other Yes ☐ No ☐
- Can pigs and animals have indirect contact with each other Yes ☐ No ☐
- Additional information \_\_\_\_\_

7.1 Movement of animals from pasture/forest to farm in the last 4 weeks Yes ☐ No ☐

If yes, which species and purpose \_\_\_\_\_

Every day ☐

Several times per week ☐

Once per week and less ☐

8. Population of rodent (mice, rats):

- |  |                              |                             |
|--|------------------------------|-----------------------------|
| Ongoing rodent control                           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| - is done by specialized company                 | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| - is done by owners                              | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| - high (visible problems with rodents)           | <input type="checkbox"/>     |                             |
| - average (no problems, only signs of rodents)   | <input type="checkbox"/>     |                             |
| - low (rodents and their signs are not observed) | <input type="checkbox"/>     |                             |

Additional information \_\_\_\_\_

9. Cleaning, washing of premises:

- |  |                          |
|--|--------------------------|
| almost exclusively dry cleaning                                  | <input type="checkbox"/> |
| washing without using high-pressure water                        | <input type="checkbox"/> |
| washing in cold or hot high-pressure water without disinfectants | <input type="checkbox"/> |

**Cleaning is carried out:**

- periodically (how frequently) daily ☐
- by taking out from the individual or group holdings ☐
- on the "all-in-all-out" basis ☐
- not carried out ☐
- in presence of animals ☐

**Disinfection is carried out:**

- periodically (how frequently) \_\_\_\_\_ ☐
- by taking out from the individual or group holdings ☐
- on the "all-in-all-out" basis ☐
- not carried out ☐
- in presence of animals ☐

**10. Ventilation systems:**

- natural ventilation ☐
- mechanical ventilation ☐
- separate systems by sections of premise Yes ☐ No ☐
- filters Yes ☐ No ☐
- insect nets are installed Yes ☐ No ☐

Additional information about protection of windows, doors and ventilation openings from insects \_\_\_\_\_

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**11. Collection and storage (before dispatch for utilization) of dead animal in the last 4 weeks:**

Yes ☐ No ☐

**If Yes**

**In closed leakage prove containers** ☐

- ☐ inside a barn or utility room
- ☐ on the premise territory
- ☐ on the edge of premise territory

**Not in containers, openly** ☐

- ☐ inside a barn or utility room
- ☐ on the premise territory
- ☐ on the edge of premise territory

**12. Pig feeding:**

- ☐ fed only non-animal origin feed produced by themselves and purchased
- ☐ fed only non-animal origin feed produced by themselves
- ☐ fed only non-animal origin feed which is purchased
- ☐ green fodder is used (grass, potatoes and etc)
- ☐ fed with purchased feed of animal origin (e. g.: blood, fish meal and etc.)

- ☐ fed with milk of cows (goats, sheep) from own farm
- ☐ feeding with milk processing products or by products from enterprises
- ☐ other feeding practices \_\_\_\_\_

#### 12.1 In-depth information on feeding (diet, technology, feed suppliers):

Whole-meal from own grown grain ☐ Is it steamed Yes ☐ No ☐

Bought whole-meal ☐ Is it steamed Yes ☐ No ☐

Comments \_\_\_\_\_

#### 12.2 Feeding with food waste from canteens or own household kitchen: ☐ Yes ☐ No

if "Yes", is it:

- ☐ heat-treated ☐ not heat treated

#### 12.5 Feed storage:

Specify whether feed and bedding are protected from wild boars ☐ Yes ☐ No

In the same space/room where pigs are kept ☐

In the same building next to pig holding space ☐

In the same pig keeping building, but you have to bring feed from outside the building ☐

Biosecurity is good ☐

Biosecurity is bad ☐

In a separate building with good biosecurity ☐

In a separate building with bad biosecurity ☐

Grain is ground in a pig holding space Yes ☐ No ☐

Other

Comments \_\_\_\_\_

#### 12.6 Beddings: ☐ homemade ☐ acquired or bought

☐ straw ☐ sawdust ☐ No bedding

#### 12.7 Storage place of beddings (other information):

In the same space/room where pigs are kept ☐

In the same building as pigs ☐

In the same pig keeping building, but you have to bring feed from outside the building ☐

Another building:

With good biosecurity ☐

With bad biosecurity ☐

Additional information \_\_\_\_\_

#### 13. Insemination:

- ☐ natural mating
- ☐ artificial insemination with on the farm produced semen
- ☐ artificial insemination with purchased semen
- ☐ insemination is performed by farmer (no service from outside)

☐ other (e.g. mixed) \_\_\_\_\_

**15. Animal purchases and sales within the last 4 weeks:**

**a) purchase:** Yes ☐ No ☐

Date	Quantity	Age, category	Place of purchase	Herd origin

**b) sale:** Yes ☐ No ☐

Date	Quantity	Age, category	Place of purchase	Herd origin

**Movement routes of the purchased pigs:**

- ☐ from seller's farm
- ☐ trader's premises
- ☐ auctions /exhibitions/markets
- ☐ shipment directly from the herd of origin by own transport
- ☐ shipment directly from the herd of origin by means of carriers
- ☐ direct shipment with visiting other herds

**16. Distance from an outbreak to the nearest pig holdings/herds:**

**a)**

No	Name and address	Distances (km)	If there was a ASF outbreak - distance in km
1			
2			

**b) Distance to the nearest positive wild boar hunted or found dead during the last 6 months:**

No	Location and coordinates WGS	Distances (km)	Date

**17. Official veterinary control of the farm**

Yes ☐ No ☐

If "Yes", then:

- ☐ once a year
- ☐ once during the pig fattening period
- ☐ twice a year
- ☐ more often

Date of last visit \_\_\_\_\_

20. Visitors within the last 4 weeks: Yes ☐ No ☐

a) controlling authorities:

- ☐ veterinary services
- ☐ breeding service
- ☐ environmental protection
- ☐ fire protection
- ☐ National Paying Agency
- ☐ other authorities

b) service providers:

- ☐ inseminators
- ☐ carriers
- ☐ feed suppliers
- ☐ technical staff
- ☐ attending/holding veterinarian:

identification No: \_\_\_\_\_

address, tel.: \_\_\_\_\_

c) other persons:

- ☐ animal traders
- ☐ butcher
- ☐ hunter
- ☐ other \_\_\_\_\_

(specify)

The visitor had contact with pigs on the farm Yes ☐ No ☐

The visitors entered pig farm/ area only Yes ☐ No ☐

(specify which visitors had which contacts and date) \_\_\_\_\_

21. Movement of transport to pig farm area for last 4 weeks Yes ☐ No ☐

List of transport that arrived to the farm in the last 4 weeks (dates and purpose)

Was there a sharing of farm transport with other farms in the last 4 weeks Yes ☐ No ☐

Farm transport is used for work in fields/pastures in the last 4 weeks Yes ☐ No ☐

Farm transport is used for work in forests in the last 4 weeks Yes ☐ No ☐

Visiting transport on the farm in forests in the last 4 weeks Yes ☐ No ☐

Comments if answered yes \_\_\_\_\_

22. Other contacts within the last 4 weeks: Yes ☐ No ☐

Possible contact with wild boars Yes ☐ No ☐ \_\_\_\_\_

Common use of machines or parts of machines (e.g. grass or silage choppers) ☐ Yes ☐ No

Sharing of tools/gear with neighbors/friends within the last 4 weeks \_\_\_\_\_ ☐ Yes ☐ No

Other possibilities of the contact:

(specify)

**22.1 Movement of farm personnel to forest in the last 4 weeks**

Yes ☐

No ☐

Purpose of movement \_\_\_\_\_

Once per week ☐

2-3 times per week ☐

More than 3 times per week ☐

Date of last visit \_\_\_\_\_

**22.3 Movement of farm personnel to pastures in the last 4 weeks**

Yes ☐

No ☐

Purpose of movement animal care, works on fields

Once per week ☐

2-3 times per week ☐

More than 3 times per week ☐

Date of last visit \_\_\_\_\_

**22.4 Additional information regarding visitors**

- ☐ there is a hunter among the owners/family, who lives/works on the farm
- ☐ there is a hunter among workers who has contact with pigs
- ☐ there is a hunter among other farm workers with no direct contact with pigs
- ☐ hunters among friends, relatives and etc.,
- ☐ no hunters on farm

**23. ASF historical data:**

a) ASF – was previously detected ☐ Yes ☐ No

Date of confirmation: \_\_\_\_\_

**26. Biosecurity assessment in the holding**

	Measure	Comments and observations	Is there a risk?	
			YES	NO
	External biosecurity			
4	Fence and gate quality			
5	Manure keeping place is fenced			
6	Disinfectant barriers (quality and use)			
7	Fomites (only for pigs or not)			
8	Appropriate environment (clean and etc)			

How reliably can be concluded that disinfection matts, rubber boots and working clothes for biosecurity purposes are maintained in good conditions, are used properly, regularly and that a farmer follows biosecurity requirements (assessment by the reviewer)

Not reliable	1	2	3	4	5	6	7	8	9	10	Reliable

## VII. ADDITIONAL INFORMATION

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