

Programme for the early detection of African swine fever virus infections and raising knowledge on the disease and its eradication



General Veterinary Inspectorate

African swine fever - programme



Programme for the early detection of African swine fever virus infections and raising knowledge on the disease and its eradication

The programme is intended to
enhance the protection of the territory
of the Republic of Poland and the territory of the European Union
against the spread of ASF virus.

Regulation of the Minister of Agriculture and Rural Development of 7 January 2016 on the introduction in 2016 of the “Programme for the early detection of African swine fever virus infections and raising knowledge on the disease and its eradication” on the territory of the Republic of Poland.

Collection of samples from wild boars- areas I, II, III



The District Veterinary Officer collects samples for testing to detect ASF

a) from every wild boar found dead

(Hunters, Forest Service and Border Guard staff and persons in contact with dead wild boars are obliged to report the fact of finding dead wild boars to the Veterinary Inspection bodies.);

a) from every wild boar dead in traffic accidents;

b) from every culled wild boar;

delivered to a local point of purchase of game meat, or a game meat processing plant or other facility supervised by a Veterinary Inspection body in which wild game carcasses or skins can be stored.

The District Veterinary Officer pays payment for every shoot wild boar

African swine fever - area without restrictions



Samples for laboratory tests for ASF in the area covering the territory of the Republic of Poland located outside the area at risk, area under restrictions and protection area are collected:

1) from pigs – in a case when the number of fallen animals in the herd is:

- a) in piglets – over 20%,
- b) in weaners – over 10%,
- c) in fattening pigs – over 5%

2) from pigs with atypical clinical symptoms

on the basis of which it is not possible to make a diagnosis, or symptoms indicative of ASF virus infection (before collecting the samples for laboratory tests to detect ASF, the District Veterinary Officer checks the condition of health of pigs in the herd, including a clinical examination of the pigs with internal body temperature measurement or dissection of fallen pigs, and collects samples for laboratory tests for ASF from pigs with the symptoms of illness and fever or fallen pigs, or pigs with fever and symptoms of hemorrhagic syndrome;)

3) from each found dead wild boar, as well as wild boars killed in traffic accidents and every culled ill wild boar.

Laboratory tests



pigs

- live – blood
- fallen or slaughtered – tonsils, lymph nodes (gastric, hepatic, submandibular, retropharyngeal), spleen, kidneys, lung tissue and, if possible, blood

wild boars

- culled – blood
- dead wild boars - tonsils, lymph nodes (gastric, hepatic, submandibular, retropharyngeal), spleen, kidneys, lung tissue and, if possible, blood
- dead bodies of wild boars undergoing autolysis - long bone or sternum

Laboratory tests



- Samples taken from live, dead or slaughtered pigs are tested by the **qRT-PCR** method, and when a laboratory test for ASF by qrt-PCR is positive, **ELISA** is also carried out.
- In the **area at risk**, **area under restrictions** and **protection area**, when it is suspected that a pig is chronically infected with ASF, the samples are tested by **ELISA**.
- Samples taken in the ASF outbreak are examined by the qRT method - **PCR** and **ELISA**.
- In the **area at risk**, **protection area** and **area under restrictions**, samples taken from dead or culled wild boars are tested by the **qRT-PCR** method and, if it is possible to collect appropriate samples for laboratory tests, by **ELISA**.
- Within the territory of the Republic of Poland located outside the area at risk, area under restrictions and protection area, found dead and culled ill wild boars are tested by **qRT-PCR**.
- Samples taken from wild boars caught live are tested by the **qRT-PCR** and **ELISA**.
- In case of suspected false positive or a doubtful **ELISA** result, a serological test by **IB** or **IPT** is performed.

ASF - Epizootic situation 2016



Cases of ASF in wild boars

- ✓ First case → 17 February 2014
- ✓ 2014: 30 cases
- ✓ 2015: 53 cases
- ✓ **2016: 80 cases**



Outbreaks of ASF in pigs

- ✓ 2014: 2 outbreaks
- ✓ 2015: 1 outbreak
- ✓ **2016: 20 outbreaks**

African swine fever - monitoring results



The examinations under ASF monitoring were carried out in Poland in 2016 in:

- 81,699 pigs
- 15,583 wild boars
 - passive monitoring 5,200
 - active monitoring 10,383

Monitoring results for 2016



Poland	1.01 - 30.12.2016									
	Number of sampled animals - domestic pigs	Number of outbreaks - domestic pigs	Number of tests - domestic pigs		Number of sampled animals - wild boars		Number of cases - wild boars	Number of tests		
PCR			ELISA	monitoring activ	monitoring passiv	PCR		ELISA		
dolnośląskie	7	0	7	0	2	245	0	225	0	
kuj-pom	206	0	191	0	0	230	0	240	0	
lubelskie	14 452	5	10 693	4 535	1 315	529	16	1 168	291	
lubuskie	22	0	12	0	0	241	0	230	0	
łódzkie	126	0	126	0	5	211	0	216	0	
małopolskie	76	0	76	0	0	178	0	178	0	
mazowieckie	24 425	2	14 797	1 003	709	719	3	1 158	430	
opolskie	40	0	35	0	0	132	0	132	0	
podkarpackie	12	0	19	0	0	205	0	200	0	
podlaskie	42 007	13	31 555	10 838	8 239	271	61	6 580	6 406	
pomorskie	80	0	60	0	0	524	0	524	0	
śląskie	31	0	31	0	0	436	0	413	0	
świętokrzyskie	14	0	14	0	0	41	0	41	0	
warm-maz	42	0	72	0	111	333	0	375	99	
wlkp	98	0	98	0	2	357	0	347	0	
zach-pom	31	0	29	0	0	548	0	547	0	
summary	81 669	20	57 815	16 376	10 383	5 200	80	12 574	7 226	

Monitoring results for 2016

- voivodeships with area I, II, or III



voivodeship with area I, II or III	1.01 - 30.12.2016								
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			PCR	ELISA	monitoring activ	monitoring passiv		PCR	ELISA
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podlaskie	42 007	13	31 555	10 838	8 239	271	61	6 580	6 406
warm-maz	42	0	72	0	111	333	0	375	99
	80 926	20	57 117	16 376	10 374	1 852	80	9 281	7 226



Thank you