

Hungary

Workshop on African swine fever management in wild boar – Surveillance and prevention of transmission to/from domestic pigs

African swine fever management in wild boar

Kaunas, Lithuania, 22-23 November 2017

Susceptible Species Population

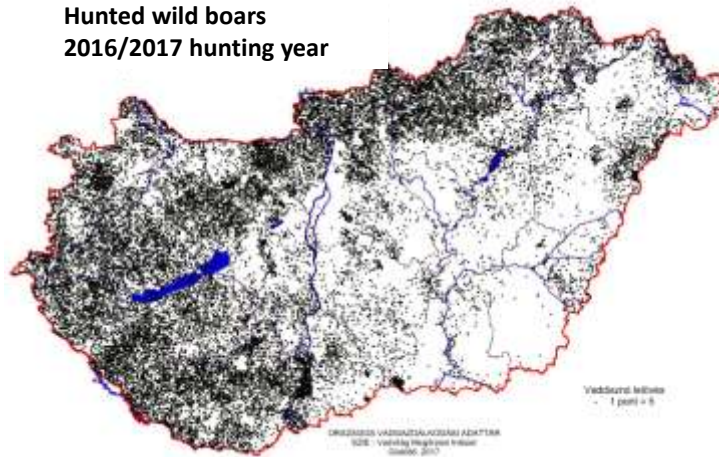
Species	Total number of pigs	Total Number of farms
Pig population (2016)	2 760 103	64 803 (registered)
Pigs in commercial farms		870 large scale + 6 691 small scale
Pigs in non-commercial farms		30 299
Number of wild boars (in February 2017)	102 600	NA.
Number of Hunted wild boar (hunting year 2016/2017)	143 081	NA.

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Susceptible Species Population

Hunted wild boars
2016/2017 hunting year



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ASF situation: Domestic pigs

- Nr. of outbreaks in domestic pigs 2016: 0
- Nr. of investigated and negative suspected cases 2016: 3 holdings (6 pigs)
- Nr. of pigs tested in the frame of enhanced passive surveillance 2016: 623

- Nr. of outbreaks in domestic pigs 2017: 0
- Nr. of investigated and negative suspected cases 2017: 6 holdings (16 pigs)
- Nr. of pigs tested in the frame of enhanced passive surveillance 2017: 645

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ASF situation: Wild boar

2016/2017 hunting year (1 March 2016-28 February 2017)

- Number of wild boars found dead: 54 (total passive surveillance: 64)
- Number of POSITIVE FOUND DEAD wild boars: 0
- Number of hunted and tested wild boars: 8949 PCR, 8877 ELISA
- Number of POSITIVE HUNTED wild boars: 0

2017/2018 hunting year (1 March 2017-28 February 2018)

- Number of wild boars found dead: 55 (total passive surveillance: 72)
- Number of POSITIVE FOUND DEAD wild boars: 0
- Number of hunted and tested wild boars: 1871 PCR, 34 ELISA
- Number of POSITIVE HUNTED wild boars: 0

Surveillance



Surveillance (wild boars)

AIM of surveillance	Type of surveillance (passive/active)	Laboratory test (PCR on organs/serology on blood sera)
Early detection (first case in wild boar in free area)	Passive surveillance (HRA: organised searching for dead wb)	PCR on organs, virus isolation
	Active surveillance (HRA: all hunted)	PCR from blood
Already infected areas	NA.	NA.
Free high risk areas	Passive surveillance Active surveillance: all hunted wb	PCR on organs, virus isolation PCR from blood
Free medium&low risk areas 2017/2018 hunting year	Passive surveillance Active surveillance: 5/95 & 10/95	PCR on organs, virus isolation PCR from blood
Free medium risk areas 2018/2019 hunting year	Passive surveillance Active surveillance: 5/95	PCR on organs, virus isolation PCR from blood
Free low risk areas 2018/2019 hunting year	Passive surveillance Active surveillance: discontinued	PCR on organs, virus isolation -

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Surveillance (domestic pigs)

AIM of surveillance	Type of surveillance (passive/active)	Laboratory test (PCR on organs/serology on blood sera)
Early detection (first case in wild boar in free area)	Passive surveillance (HRA: all reported dead pigs from small scale, 2 dead pigs/week from large scale) (whole country: enhanced passive surveillance)	PCR on organs, PCR from blood, virus isolation
Already infected areas	NA.	NA.
Free high risk areas	Passive surveillance/ HRA: all reported dead pigs from small scale, 2 dead pigs/week from large scale	PCR on organs, PCR from blood, virus isolation
Free medium&low risk areas	Passive surveillance/ Whole country: enhanced passive s.	PCR on organs, PCR from blood, virus isolation

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Prevention and Awareness

Measure	Applied/available
Banning of supplementary feeding	Applied: HRA
Targeted hunting	Applied: HRA
Hunting to decrease WB density	Applied: HRA
Active search of carcasse	Applied: HRA
Ban of hunting	Applied: ban of driven hunts in HRA
Wild boar repellents	Not applied
Other	Enhanced surveillance in domestic pigs Disinfection, control of baggage and awareness raising on the border

- Awareness activities among hunters
 - Homepage: <http://portal.nebih.gov.hu/afrikai-sertespestis>
 - Leaflets
 - Hunting magazine
 - Meetings
 - Official orders (HRA)

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Diagnostic capacity

Assay	Available	Not available	Testing possible at any time (24/7)	Max capacity of sample testing/day (peacetime / emergency situation)
PCR	x		yes	VDD Budapest (NRL): 100 (500) VDD Debrecen: 100 (500)
Virus isolation	x		yes	VDD Budapest (NRL): 10 (50)
Serology ELISA	x		yes	VDD Budapest (NRL): 1000 (5000) VDD Debrecen: 1000 (5000)
Serology IPT	x		yes	VDD Budapest (NRL): 100 (500)

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Case response for ASF in wild boar

Measure	Applied/available		
Dedicated ASF in wild boar Legislation	<ul style="list-style-type: none"> National legislation for ASF covers wild boars as well Decision No. 2/2017 of the CVO and internal instructions of the CVO 		
Hunting management	Specific rules for HRA: testing of all hunted wb, ban of driven hunts, organised searching for dead wb		
Depopulation of wild boar	Specific rules for HRA: Targeted hunting of female and <1 year in the HRA		
Hunting Biosecurity procedures	During the hunt Specific rules for HRA: safe disposal of offals	Transport at home Specific rules for HRA: Transport to game collection centre, testing of all hunted wb	At the hunting lodge
Disposal of infected hunted animals (NA)	(Ad hoc disposal Pits)	(Burning/Burial)	(Disposed at home) No!
Disposal of found dead wild boars		Specific rules for HRA: Burial and disinfection on the spot	

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Challenges

- Increase passive surveillance in wild boars (increase number of tested dead wild boars) → financial incentives, organised search in HRA
- Wild boar population reduction ↔ ban of driven hunt

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Thank you for your attention!



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