

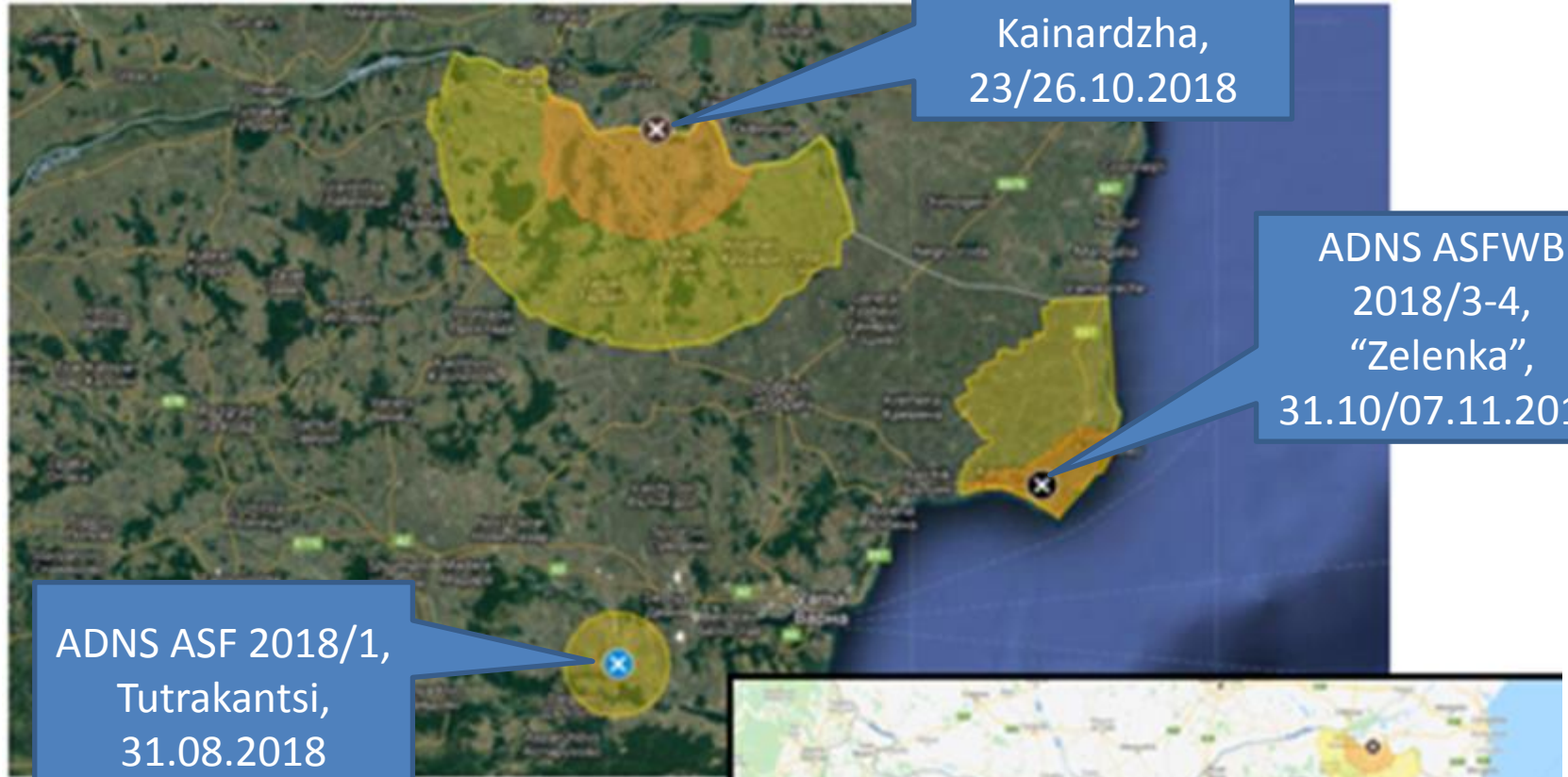
# African Swine Fever



## Current situation in Bulgaria

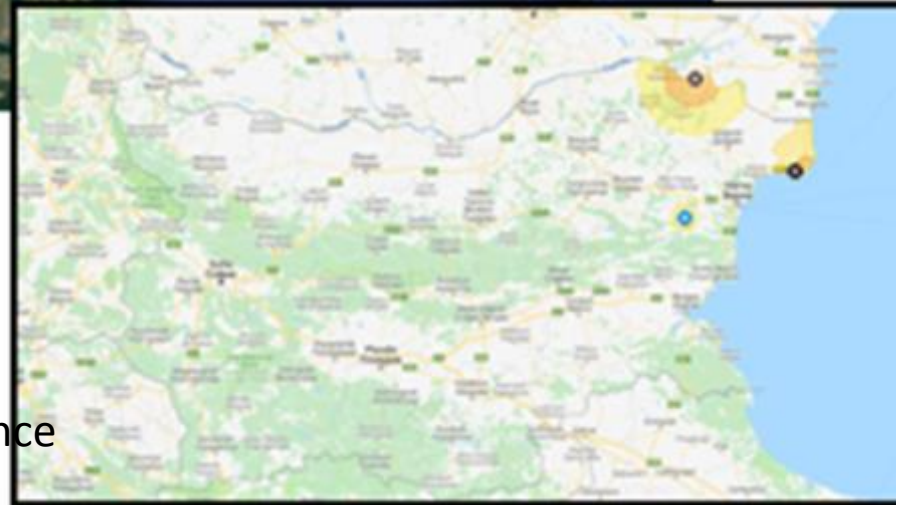
SC PAFF, 23 November 2018



# Overview of the situation



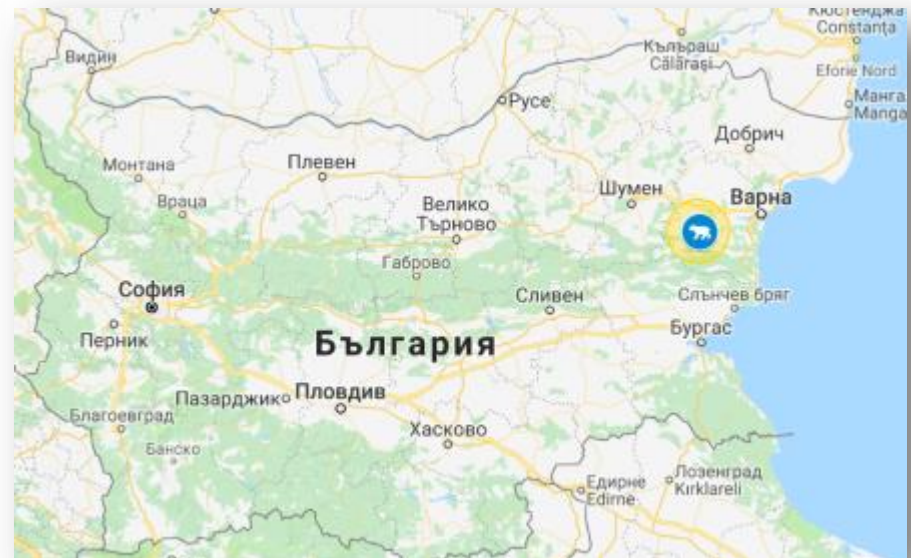
-  Infected zone
-  Buffer zone related to ASF in WB/Surveillance zone related to ASF in domestic pigs



# First occurrence of ASF virus in Bulgaria: Tutrakantsi, Provadiya municipality, Varna region



- Date of suspicion: 30.08.2018
- Date of confirmation: 31.08.2018
- Location: Tutrakantsi village, Provadiya municipality, Varna region
- Report to ADNS: 31.08.2018, 18:00
- **Backyard** farm with 7 pigs – 4 of them died





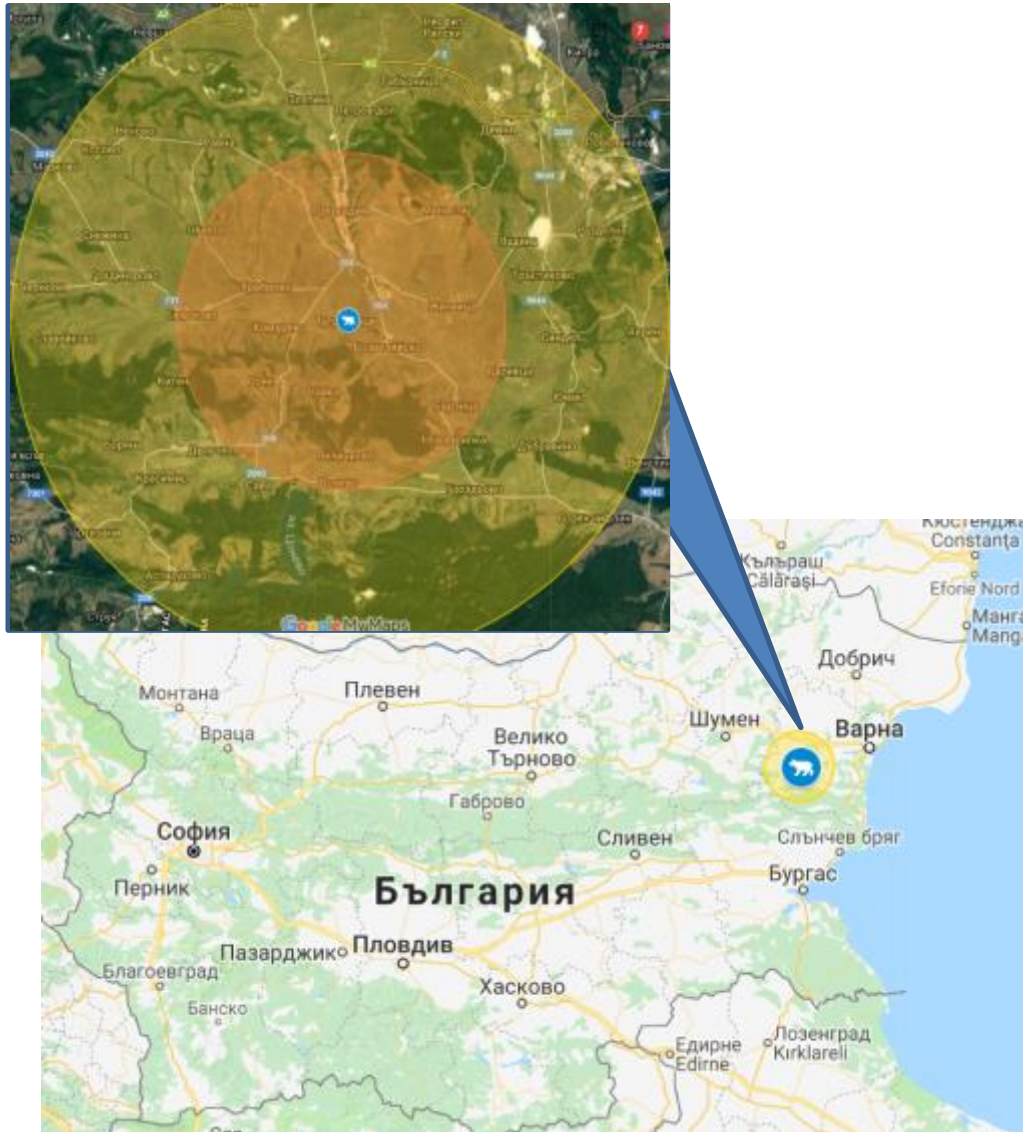
**Table 4 → Summary of the molecular characterization results from Eastern European ASFV isolates 2007-2018**

COUNTRY	YEAR	CVR SUBTYPING	IGR <sub>I73R-I329L</sub>	IGR <sub>MGF</sub>
			SUBTYPING	SUBTYPING
Georgia	2007	CVR1	IGR-1	MGF -1
Armenia	2007	CVR1	IGR-1	MGF -1
Azerbaijan	2008	CVR1	IGR-1	MGF -1
Russia Federation	2007-2012	CVR1		
	2012-2017	CVR1		
Ukraine	2012, 2015	CVR1		
Belarus	2013	CVR1		
	2014	CVR1		
Estonia	2015-2016	CVR1+ <b>CVR 2</b>	<b>IGR-2</b>	MGF -1
	2017-2018	CVR1 + <b>CVR1SNP1*</b>	<b>IGR-2</b>	MGF -1
Latvia	2014-2018	CVR1	<b>IGR-2</b>	MGF -1
Lithuania	2014-2016	CVR1	<b>IGR-2</b>	MGF -1
	2017-2018	CVR1+ <b>CVR1SNP3*</b>	<b>IGR-2</b>	MGF -1+ <b>MGF -4 + MGF -5</b>
Poland	2014-2015	CVR1	<b>IGR-2</b>	MGF -1
	2016	CVR1	<b>IGR-2</b>	MGF -1 + <b>MGF -2</b>
	2017-2018	CVR1 + <b>CVR1SNP2*</b>	IGR-1 + <b>IGR-2</b>	MGF -1 + <b>MGF -2</b>
Moldova	2016-2018	CVR1	<b>IGR-2</b>	MGF -1
Czech Republic	2017-2018	CVR1	<b>IGR-2</b>	MGF -1
Romania	2017-2018	CVR1	<b>IGR-2</b>	MGF -1
Hungary	2018	CVR1	<b>IGR-2</b>	MGF -1
<b>Bulgaria</b>	<b>2018</b>	<b>CVR1</b>	<b>IGR-2</b>	<b>MGF -1</b>

**BULGARIA ASFV  
GII, CVR1 IGR2, MGF1**



## Veterinary measures have been taken in accordance with the Council Directive 2002/60/EC:



- All 97 pigs in Tutrakatsi were culled and destroyed by burial
- Disinfection of vehicles, streets and equipment were performed
- Movement restrictions
- Ban on driven hunt
- Enhanced biosecurity
- 2 phases of surveillance

# Results from surveillance in Varna region

**1<sup>st</sup> phase** – as of 3<sup>rd</sup> September 2018 – checks and sampling for laboratory testing (virology and serology) of all domestic pigs within the 10-km protection zone.

Region	Municipality	No. of villages	No. of samples	% of domestic pigs sampled	Result
Varna	Provadiya	14	1482	100%	Negative
	Dalgopol	4	657	100%	Negative
	Avren	1	40	100%	Negative
	Dolni Chiflik	1	48	100%	Negative
Total:		20	2227	100%	Negative

**2<sup>nd</sup> phase** – as of 22 October 2018 and included second round of sampling within the 10-km protection zone and clinical checks in both protection and 20-km surveillance zones

Region	Municipality	No. of villages	No. of samples*	Result
Varna	Provadiya	14	279	Negative
	Dalgopol	4	228	Negative
	Avren	1	14	Negative
	Dolni Chiflik	1	14	Negative
Total:		20	535	Negative

*\*Village=epi-unit, no. of samples to detect 20% prevalence with 95% confidence. EBP herds – no. of samples to detect 5% prevalence with 95% confidence*

## Results from surveillance in Varna region – 2

Region	Municipality	No. of villages	No. of pig holdings checked	% of pig holdings checked	No. of pigs clinically examined*	Result
Varna	Provadiya	21	237	100%	824	Negative
	Dalgopol	9	117	100%	740	Negative
	Avren	7	46	100%	161	Negative
	Dolni Chiflik	4	78	100%	158	Negative
	Vetrino	1	7	100%	16	Negative
	Beloslav	1	4	100%	21	Negative
	Devnya	2	43	100%	107	Negative
Total:		45	532	100%	2027	Negative

\* *Clinical examinations on no. of animals per holding to detect 20% prevalence with 95% confidence. EBP herds – clinical examinations on no. of animals to detect 5% prevalence with 95% confidence*

**Passive surveillance** – 105 samples from commercial farm, 4 from backyards – all negative

**Surveillance in WB** – 30 Aug – 19 Nov 2018

Region	No of samples	Result
Varna	297 (2 passive surveillance)	Negative

# ASF in WB – Kaynardzha, Silistra

**23.10.2018** – ASF in WB found dead

**26.10.2018** – ASF in WB showing clinical signs shot in close proximity

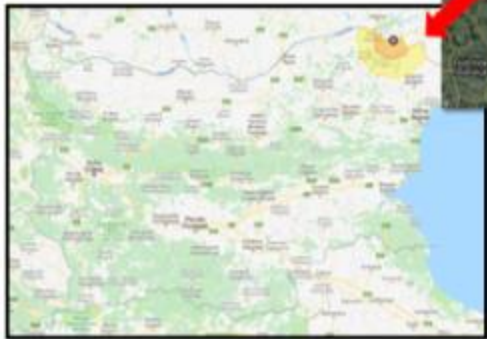
**Restrictive zones** established:

- Infected zone of 20 km radius around the case – 654 sq.km
- Buffer zone – 20 km around the infected zone – 2045 sq.km
- Surveillance zones – Silistra and Dobrich region

No industrial farms registered within the infected zone, nor in entire municipality of Kaynardzha.

Estimation of the WB population in the region of Silistra – appr. 1 500 WB.

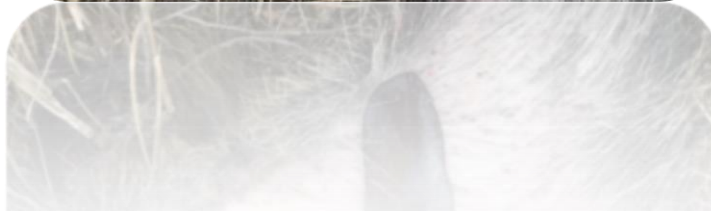
**Source of infection** – most likely hypothesis – migration of affected wild boar across the border.



*Territories of the infected and the buffer zones were included respectively in Annex II and Annex I of Decision 2014/709/EU amended by Commission Implementing Decision (EU) 2018/1635 of 30 October 2018*



# ASF in WB – Kaynardzha, Silistra



# ASF in WB – Kaynardzha, Silistra



# Results from surveillance in Silistra region

**Active surveillance** in domestic pigs for the period 23 Oct – 21 Nov 2018

Silistra region	No. of villages	No. of pig holdings	No. of domestic pigs	No. of pig holdings checked	No. of pigs clinically examined	Result	No. of holdings in which samples were collected	No. of pigs sampled	Result
Infected zone	22	78	203	78	203	No clinical symptoms	19	61	Negative
Buffer zone	31	274	850	106	214	No clinical symptoms	1	87	Negative
Rest of Dobrich region	65	303	27519	220	464	No clinical symptoms	0	0	
Total:	118	655	28572	404	881	No clinical symptoms	20	148	Negative

**Passive surveillance** in domestic pigs – 1 sample within the buffer zone – negative for ASF

# Results from surveillance in Silistra region – 2

**Surveillance in WB** for the period 23 Oct – 21 Nov 2018

Silistra	No of samples	Result
Infected zone	2 (1 passive)	Positive for ASF
Buffer zone	14 (0 passive)	Negative
Rest of Silistra region	160 (0 passive)	Negative
Total:	176 (1 passive)	

# ASF in WB – hunting ground “Zelenka”, Dobrich



*Infected zone included in the Annex of CID (EU) 2018/1698 of 9 November 2018 concerning certain protective measures relating to African swine fever in Bulgaria*

**31.10.2018** – ASF in 4 WB showing clinical symptoms in fenced hunting ground “Zelenka”

**07-14.11.2018** – ASF in 13 WB shot in the same hunting ground

Restrictive zones established:

- Infected zone – part of the municipalities of Kavarna and Shabla (181 sq.km)
- Buffer zone – the rest of the municipalities of Kavarna and Shabla (817 sq. km)
- Surveillance zone – entire Dobrich region

No industrial pig farms registered in the infected zone, one industrial farm (currently non-operating) within the buffer zone.

The estimation of the WB population in Dobrich region is approximately 2 000 WB.

# ASF in WB – hunting ground “Zelenka”, Dobrich

## **Source of infection** – hypotheses:

- Road traffic from Romania
  - Intense traffic of tourists (both from Romania and Bulgaria) in this area
  - Close proximity (less than 10 km) to the main road connecting directly Bulgaria and Romania (road E87)
  - Highly possible that the virus was introduced via human factor (contaminated vehicles, food leftovers, etc.)
- Migration of WB from Romania
  - Distance between the Romanian border and the hunting ground appr. 50 km
  - Flat lands on the north covered with low-lying vegetation or used as croplands unattractive for WB
  - Surveillance activities in the rest of Dobrich region – negative for ASF
- Contaminated feed used in the hunting ground – locally produced and fed also to domestic pigs – still healthy.

# Results from surveillance in Dobrich region

**Active surveillance** in domestic pigs for the period 1 Nov – 21 Nov 2018

Dobrich region	No. of villages	No. of pig holdings	No. of domestic pigs	No. of pig holdings checked	No. of pigs clinically examined	Result	No. of holdings in which samples were collected	No. of pigs sampled	Result
Infected zone	9	3	32	0	0	-	-	-	-
Buffer zone	29	253	79	0	0	-	-	-	-
Rest of Dobrich region	178	929	66539	8	2780	No clinical symptoms	-	-	-
Total:	216	957	66650	8	2780	No clinical symptoms	-	-	-

**Passive surveillance** in domestic pigs – 29 samples from commercial holdings (industrial and type A) on the territory of the region, 4 from the buffer zone – negative for ASF

# Results from surveillance in Dobrich region – 2

**Surveillance in WB** for the period 1 Nov – 21 Nov 2018

Dobrich	No of samples	Result
Infected zone	25 (1 passive)	17 ASF positives (within the fenced area)
Buffer zone	-	-
Rest of Dobrich region	165 (5 passive)	Negative
Total:	170	



# Measures undertaken

- Stricter movement control of people, animals and animal origin foods/products coming from countries with ASF;
- Test and disposal of all meat products found by border inspections;
- Disinfection of vehicles upon entry from Romania;
- Disposal of leftovers from air and maritime vehicles traveling from ASF affected countries;
- Official biosecurity checks in pig farms;
- Development of individual contingency plans for all industrial farms, reorganization of schedule of slaughter;
- Regular meetings with stakeholders (Executive Agency for Forestry – EAF, hunting organizations and associations, pig industry) on regional and central level;
- Additional training on biosecurity for industrial farms;
- Incentives to decrease the number of backyard holdings in the zones (20-km radius) around industrial farms;



# Measures undertaken – 2

- Ban of feeding with fresh grass/special measures applicable to feed in relation ASF;
- Development of a software/app for hunters (ongoing) and reorganization of the samples submission together with those for Trichinella testing/Incentives for submitting ASF+Trichinella samples;
- Ban on trade of wild boar into the territory of Bulgaria;
- Trainings of hunters on epidemiology, sampling and enhanced biosecurity measures;
- Building of dedicated pits for WB carcasses and ABPs disposal in hunting grounds;
- Fence along the land border with Romania;
- Enforced passive surveillance in WB – obligation for notification to Official veterinarian/Regional Food Safety Agency Offices for each WB found dead and immediate disposal under official control of the carcasses after samples collection;
- Ban of driven hunt along the border with Romania from the Black Sea till Pleven region;
- Ban of driven hunt in 20 km zone around the outbreak in Tutrakantsi village;
- Awareness campaigns and regular info updates from the BFSA  
(<http://www.babh.government.bg/bg/Page/ASF2/index/ASF2/%D0%90%D1%84%D1%80%D0%B8%D0%BA%D0%B0%D0%BD%D1%81%D0%BA%D0%B0>)

# Measures undertaken – 3

## Measures as regards infected zones further to ASF in WB:

- Ban of hunting, possibility of sanitary shooting of WB by appointed hunters, trained on biosecurity and trapping of WB;
- Searching for WB carcasses by appointed hunters, trained on biosecurity or EAF officers;
- Ban of movement of domestic pigs, semen, ova, embryos, meat or products originating from the infected zone;
- Sampling of domestic pigs (for serological and virological testing) within the infected zone;
- Enhanced biosecurity measures.

## Measures in buffer zones further to ASF in WB :

- Ban of driven hunt (individual hunting possible);
- Searching for WB carcasses;
- Movement of domestic pigs from industrial farms for fattening or immediate slaughter and from type A pig farms for immediate slaughter only further to pre-movement testing, biosecurity protocols applied and under official control. Movement of pig meat and products obtained only from the aforementioned categories of holdings;
- Enhanced clinical and biosecurity checks in pig holdings;
- Notification to Official veterinarian/Regional Food Safety Agency Offices for each WB found dead and immediate disposal under official control of the carcasses after sampling.



# Decrease of backyards in affected areas

**Varna region** – Sept – Nov 2018

Varna	% of backyard decrease	% of pigs in backyards decrease
3-km zone	100 %	100 %
10-km zone	69,8%	71%
20-km zone	56,4%	44,11%

**Silistra and Dobrich regions** – Oct – Nov 2018

Region	% of backyard decrease	% of pigs in backyards decrease
Silistra	26,5%	22,3%
Dobrich	-	30%



# Thank you!

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