



MINISTRY OF AGRICULTURE  
VETERINARY AND FOOD SAFETY DIRECTORATE

# ***2014 Clasical Swine Fever Programme in Croatia***

**STANDING COMMITTEE ON PLANTS, ANIMALS, FOOD AND  
FEED**

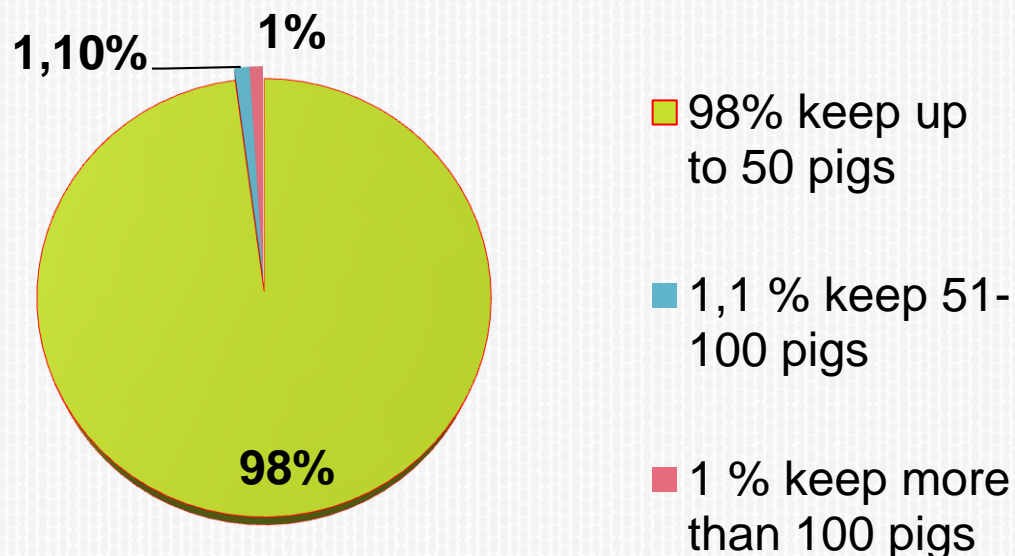
***October 2015***

# 2014 –PIG POPULATION IN CROATIA

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Number of animals: around **1.5 million pigs**

Number of holdings: **97 140**



- 1% of holdings keep more than 100 pigs and 47,1% of pigs is produced in such holdings

# CSF HISTORY IN CROATIA

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- CSF vaccination prohibited since 2005
- March 2008 – the last case CSF in domestic pigs
- November 2008 the last CSF virologically positive wild boar detected
- Active surveillance in domestic and wild boar population since 2005

# CSF SEROLOGICAL SURVEILLANCE IN 2014 – DOMESTIC PIGS

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## TARGET POPULATION - HIGH RISK GROUPS

- **SUBGROUP 1** – Commercial pig farms with 100 or more fattening pigs
- **SUBGROUP 2** – Farms keeping 5 or more breeding pigs
- **SUBGROUP 3** – Mixed herds with 10 or more pigs
  - List of farms found non compliant in preventive biosecurity measures (PBM) during Veterinary check of holdings in 2013<sup>th</sup>
    - ✓ randomly selected

# CSF SEROLOGICAL SURVEILLANCE IN 2014 - DOMESTIC PIGS

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- **SUBGROUP 4** – holdings keeping 5-50 pigs, in:
  - Vukovar-Srijem county,
  - Sisak-Moslavina county
  - Karlovac county
- **Vicinity of hunting grounds** in which the presence or new introduction of CSFV can not be fully excluded
- Localities bordering with 3rd countries in which CSF presence still can not be fully excluded

# CSF SEROLOGICAL SURVEILLANCE IN 2014 - DOMESTIC PIGS

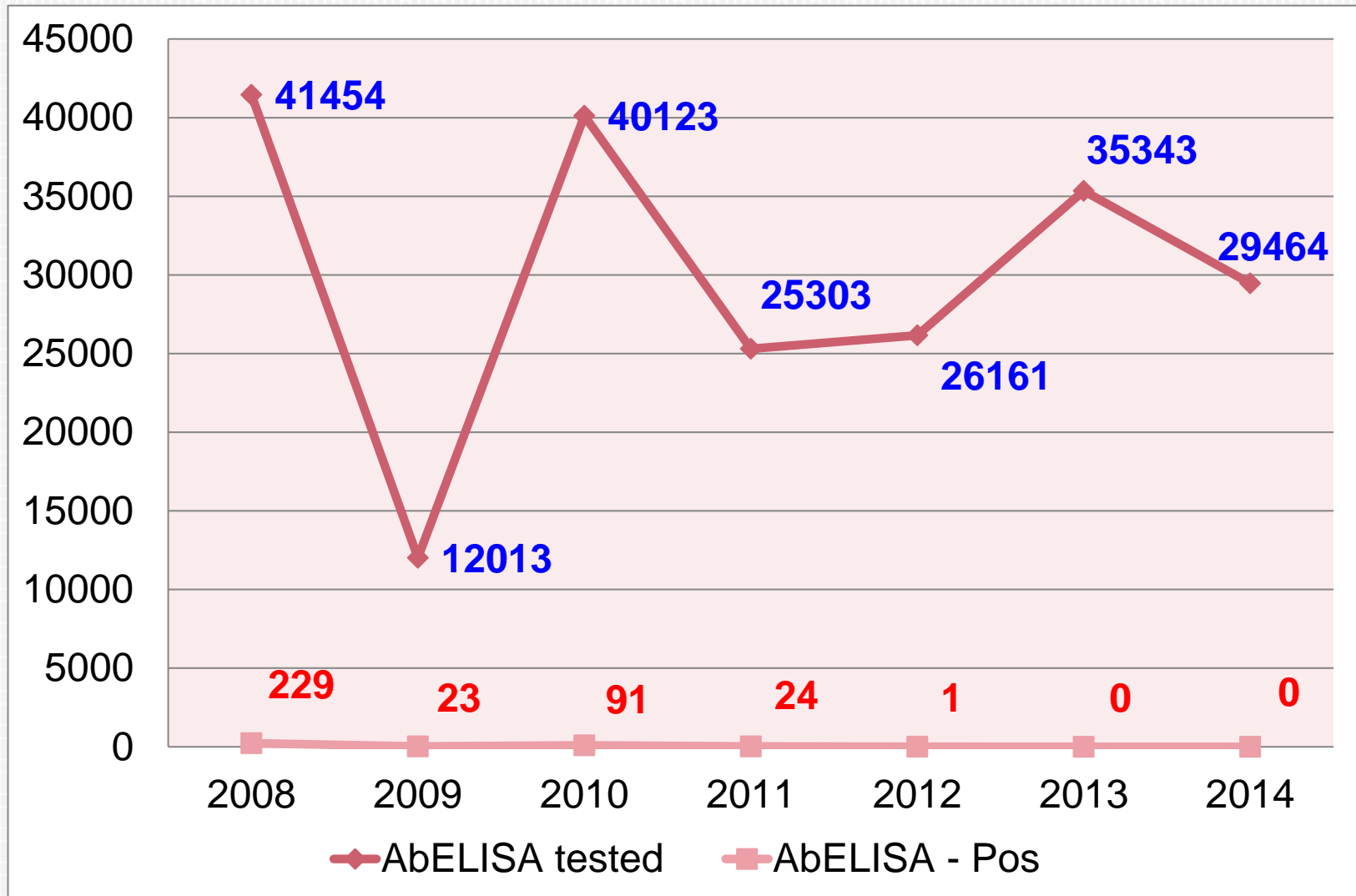
Table – CSF serological testing pig farms all over the country

	Farms	Samples
Samples	7 688	29 464
Positive	0	0

# CSF SEROLOGICAL TESTING IN DOMESTIC PIGS

## 2008 - 2014

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# CSF VIROLOGICAL SURVEILLANCE IN 2014 – DOMESTIC PIGS

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- Virological testing for the purpose of ruling out CSF
- Pigs showing clinical symptoms associated with CSF
- Pigs not responding to 5 days antib. therapy



# CSF VIROLOGICAL SURVEILLANCE IN 2014 – DOMESTIC PIGS

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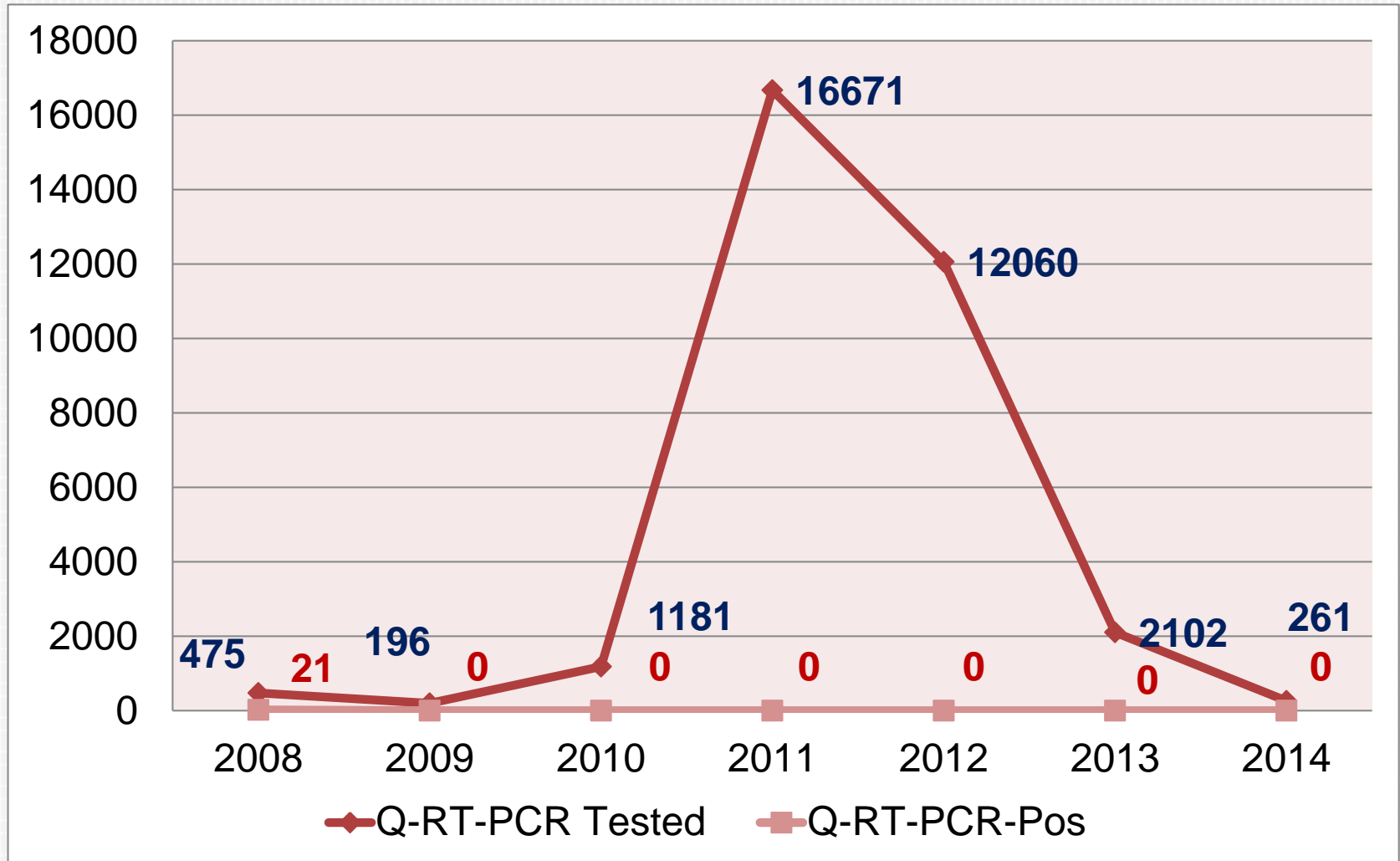
Suspicion on CSF – measures on suspicion **Nulling out of CSF – dead, sick pigs etc**

Year	Number of locations with CSF suspicion	Number of confirmed suspicions
2007	209	128
2008	9	3
2009	4	0
2010	22	0
2011	7	0
2012	6	0
2013	3	0
2014	3	0

Year	Number of holdings where CSF was ruled out
2008	46
2009	14
2010	29
2011	67
2012	31
2013	39
2014	43

# CSF VIROLOGICAL TESTING IN DOMESTIC PIGS 2008 - 2014

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# ***2014 PROGRAMME OBJECTIVES***

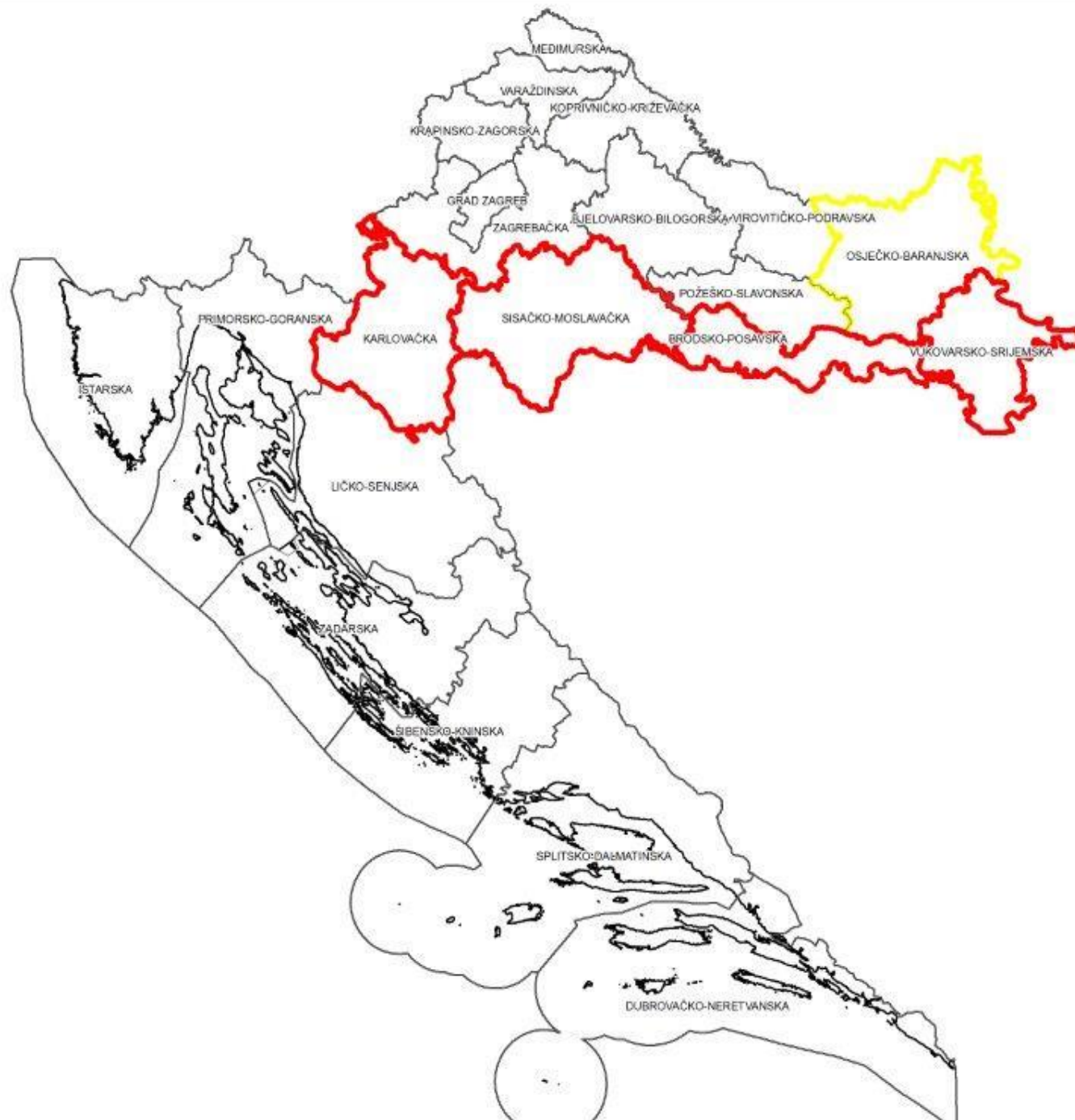
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- Early detection of possible CSF infection/disease
- Detection of possible illegal use of vaccines against CSF
- Keeping and raising awareness of CSF risks and prevention among pig keepers, hunters and veterinarians

# ***ADDITIONAL MEASURES IN 2014***

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- **July 2013. – EC Decision 2013/340** amending Decision 2008/855/EC as regards animal health control measures relating to classical swine fever in Croatia
- 4 Croatian counties listed in Annex I
- **December 2013 - EC Decision 2013/764**
  - No live pigs from those 4 counties are dispatched to EU or to other counties inside the country (except direct slaughterhouse)
  - or
  - pigs who were kept on holdings that comply with the conditions in point a) Article 4 Decision (resident for 90 days, no live pigs introducing in the last 30 days, approved biosecurity plan, inspections 2X year, sampling, clinical examinations etc...)
  - Special provisions related to the meat and meat products



# ***2014 CSF SURVEILLANCE IN WILD BOAR***

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## ***PROGRAMME OBJECTIVES***

- To support the hypothesis that Croatia is free from CSF infection in wild boar
- to allow for early detection of new introduction of CSFV in area bordering with 3rd countries;
- to provide for information on status of CSF infection along the border with 3rd countries

# 2014 CSF SURVEILLANCE IN WILD BOAR

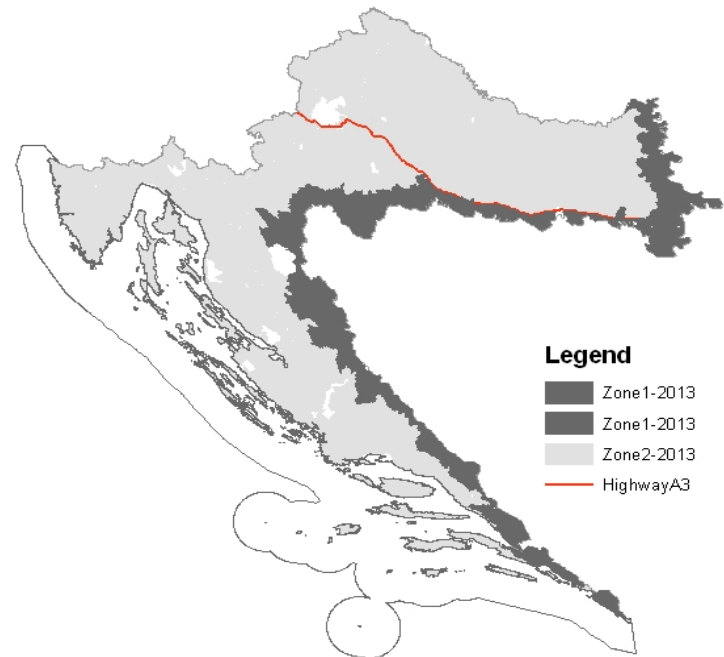
## SAMPLING IN 2 ZONES

**ZONE 1 – 20 km near border line** –  
all hunted wild boars (max. 340 per hunting  
ground) serological and virological test

**ZONE 2 – rest of the country, divided in  
60 sampling areas**, serological testing  
(detection of 1 seropositive if seroprevalence  
is 2 % with 95% CI)

- Virological investigation of wild boars  
found dead or sick
- stimulation of submission

Devision of the country based on the objectives of  
CSF surveillance in wild boar in 2013



# 2014 CSF SURVEILLANCE IN WILD BOAR

Counties	< 1 year	1-2 year	> 2 year	Total
Bjelovar-Bilogora	136	73	68	277
Brod-posavina	224	63	95	382
Dubrovni-Neretva	4	9	16	29
City of Zagreb	10	8	2	20
Istra	48	47	31	126
Karlovac	732	313	362	1407
Koprivnica-Križevci	73	21	29	123
Krapina-Zagorje	18	7	15	40
Lika-Senj	123	91	110	324
Međimurje	20	15	22	57
Osijek-Baranja	193	67	104	364
Požega-Slavonia	116	33	40	189
Primorje-Gorski Kota	128	119	78	325
Sisak-Moslavina	1655	690	653	2998
Split-Dalmatia	84	66	63	213
Šibenik-Knin	65	45	80	190
Varaždin	47	10	21	78
Virovitica-Podravina	104	28	85	217
Vukovar-Srijem	338	153	233	724
Zadar	92	38	43	173
Zagreb	105	72	64	241
<b>In total</b>	<b>4315</b>	<b>1968</b>	<b>2214</b>	<b>8497</b>



# ***EPIDEMIOLOGICAL MAP OF SEROLOGICALLY POSITIVE WILD BOAR IN 2014***

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# RESULTS OF SURVEILLANCE IN WILD BOAR POPULATION IN VUKOVAR-SRIJEM COUNTY

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- ✖ one wild boar older than 2 year was found serologically positive in one hunting ground (*XVI/11 Spačva*)
- ✖ Relevant sample was also subjected to virological testing (QRT-PCR) and result was negative.
- ✖ In that particular hunting ground all shot wild boars are subject to laboratory investigation by serological and molecular methods and all other samples were negative.

# RESULTS OF SURVEILLANCE IN WILD BOAR POPULATION IN VUKOVAR - SRIJEM COUNTY

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By county	Number of samples	Serologically positive samples	Positive samples	6 month - 1 year	1 - 2 years	older than 2 years
Vukovar-srijem	724	1*	0	339	153	232
in total	724					
* in Hunting ground XVI/11 Spačva						
Surveillance in hunting ground XVI/11 Spačva						
Hunting ground	Number of samples	Serologically positive samples	Positive samples	6 month - 1 year	1 - 2 years	older than 2 years
XVI/11 Spačva	224	1	0	77	58	89

# **FUTURE...**

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- ***Cross - border coordination with 3rd countries (Serbia, Bosnia and Hercegovina)***
- ***Further cooperation with hunting organisations***
- ***Preparing final documentation for considering possible revision of Annex of Decision 2013/764...***



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**Thank you for your attention!**