

# **RESULTS OF THE IMPLEMENTATION OF THE 2015 RABIES ERADICATION PROGRAMME**



**General Veterinary Inspectorate  
Polish Veterinary Inspection**

# Rabies eradication in 2015

## Measures foreseen within the programme

- Oral vaccination of wild foxes;
- Monitoring of vaccination effectiveness;
- Other measures implemented in outbreaks and surveillance zones.



# Rabies eradication in 2015

## Vaccination in Poland

- The vaccine distributed either from the planes or manually;
- **Plane distribution** performed in forest areas and wild foxes habitats (planes are equipped with appropriate GPS devices);
- Flight distances – 500 m;
- **Manual distribution** performed in municipal agglomerations, dumping grounds, parks in cities, or cementaries (in 5 regions: lubelskie, małopolskie, podkarpackie, śląskie and świętokrzyskie);
- Two regular vaccination campaigns carried out (spring and autumn);
- Additional campaign performed in the east part of Małopolskie region due to the epizootic situation;
- Vaccines used for foxes' immunization:
  - LYSVULPEN (spring and autumn campaign)
  - FUCHSORAL (additional campaign).



# Rabies eradication in 2015

## Vaccination in Poland

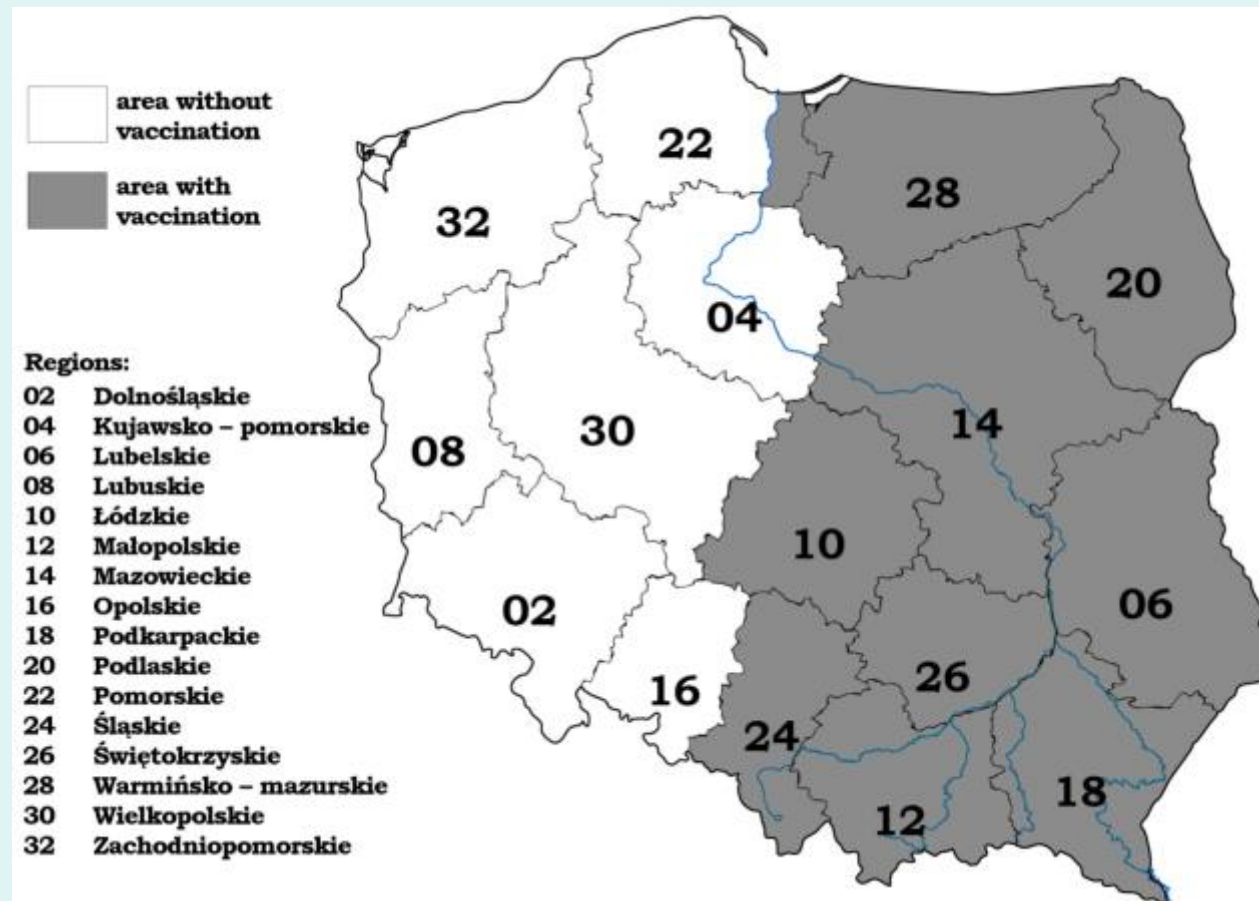
- Vaccination performed under the responsibility of the competent regional veterinary officers, however coordinated at the central level;
- Number of vaccine baits varies between regions and depends on:
  - ✓ forestration level,
  - ✓ lay of the land,
  - ✓ wildlife population,
  - ✓ epizootic situation.
- Number of baits distributed (not less than 20 baits per 1 km<sup>2</sup>):
  - ✓ 25 baits per 1 km<sup>2</sup> in the part of mazowieckie, podlaskie, śląskie and warmińsko-mazurskie regions,
  - ✓ 30 baits per 1 km<sup>2</sup> in the part of lubelskie region and whole małopolskie, podkarpackie and świętokrzyskie regions,
  - ✓ 20 baits per 1 km<sup>2</sup> in the rest of areas vaccinated;
- **In total 8 107 429** doses of vaccine distributed in 2015.



# Rabies eradication in 2015

## Vaccination in Poland

areas vaccinated in the spring (April-June) and autumn campaign (September-October)

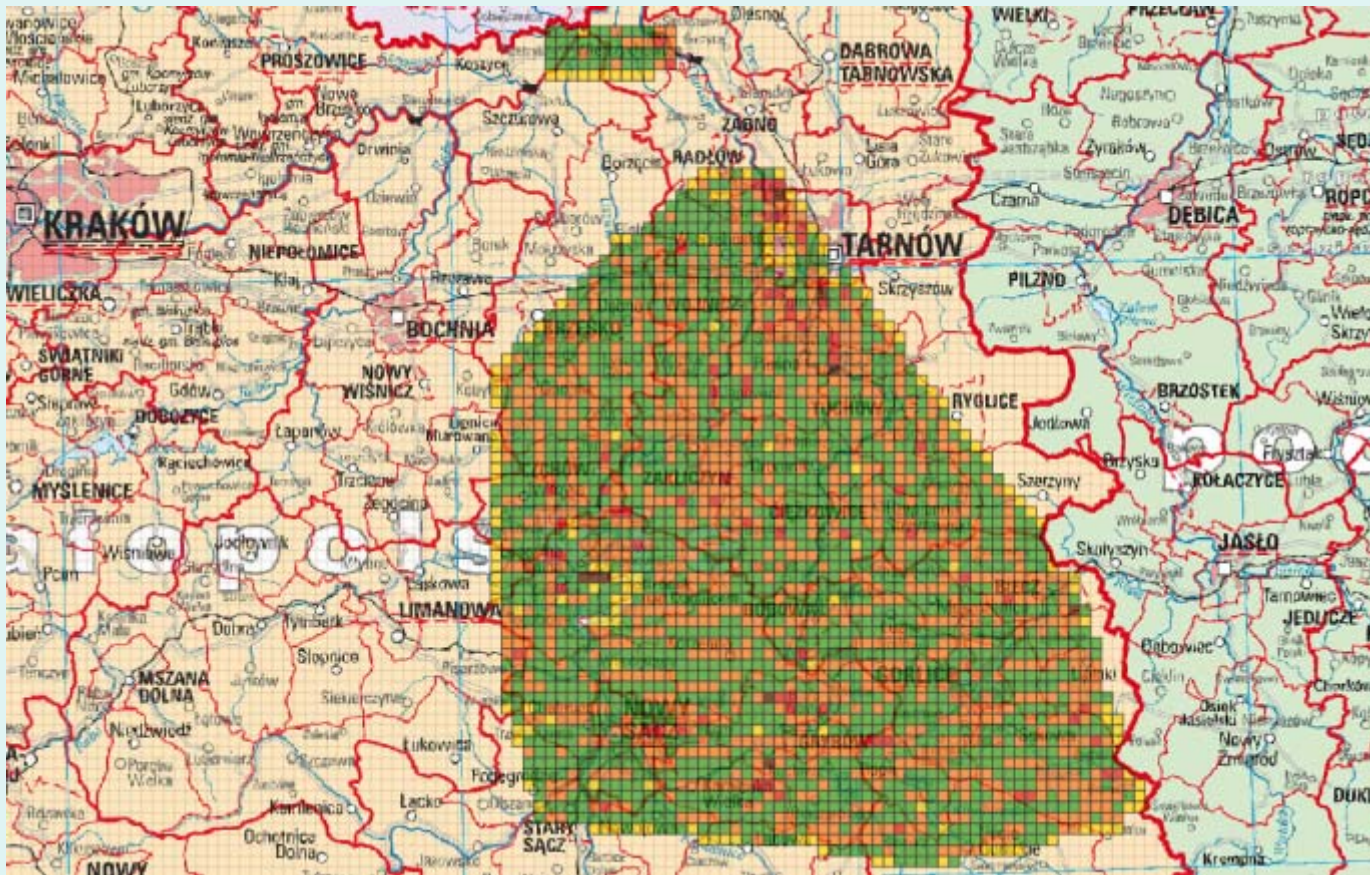




# Rabies eradication in 2015

## Vaccination in Poland

areas vaccinated in the additional campaign in malopolskie region  
(November-December)



# Rabies eradication in 2015

## Vaccination in the buffer zone in Ukraine

- Number of baits distributed - 25 baits per 1 km<sup>2</sup>;
- **In total 662 025** doses of vaccine distributed in 2015;
- Vaccine used for foxes' immunization – Brovarabies V-RG;
- Air distribution – 660 000 baits;
- Manual distribution – 2 025 baits;
- Flight distances – approximately 500 m.



# Rabies eradication in 2015

## Vaccination

areas vaccinated in the autumn campaign (September-October)  
in the buffer zone in Ukraine



Spring campaign not performed due to late signing of the agreement with Ukraine.





# Rabies eradication in 2015

## Monitoring of 2015 vaccination effectiveness in Poland

<u>TARGET</u> 8 foxes to be shot per 100 km <sup>2</sup> of foxes' habitat premisses covered by vaccination	<u>RESULTS</u> Foxes shot – 13 284
<u>TESTS</u> Uptake of vaccine (TC)	<u>RESULTS</u> Number of juvenile foxes tested – 4 051 Uptake level: 85.19%
Seroconversion (ELISA)	Number of adult foxes tested – 9 112 Uptake level: 90.84%
	Number of juvenile foxes tested – 2 953 Seroconversion level: 49.88%
	Number of adult foxes tested – 7 174 Seroconversion level: 55.84%



# Rabies eradication in 2015

## Monitoring of 2015 vaccination effectiveness in the buffer zone in Ukraine

<u>TARGET</u> 4 foxes to be shot per 100 km <sup>2</sup> covered by vaccination	<u>RESULTS</u> Foxes shot – 880
<u>TESTS</u> Uptake of vaccine (TC)	<u>RESULTS</u> Number of juvenile foxes tested – 240 Uptake level: 47.92%
Seroconversion (FAVN)	Number of adult foxes tested – 622 Uptake level: 59.49%
	Number of juvenile foxes tested – 55 Seroconversion level: 45.45%
	Number of adult foxes tested – 127 Seroconversion level: 55.91%



# Rabies eradication in 2015

Number of animals tested in the framework of passive surveillance:

- In Poland – 3877;
- In the buffer zone in Ukraine – 531.

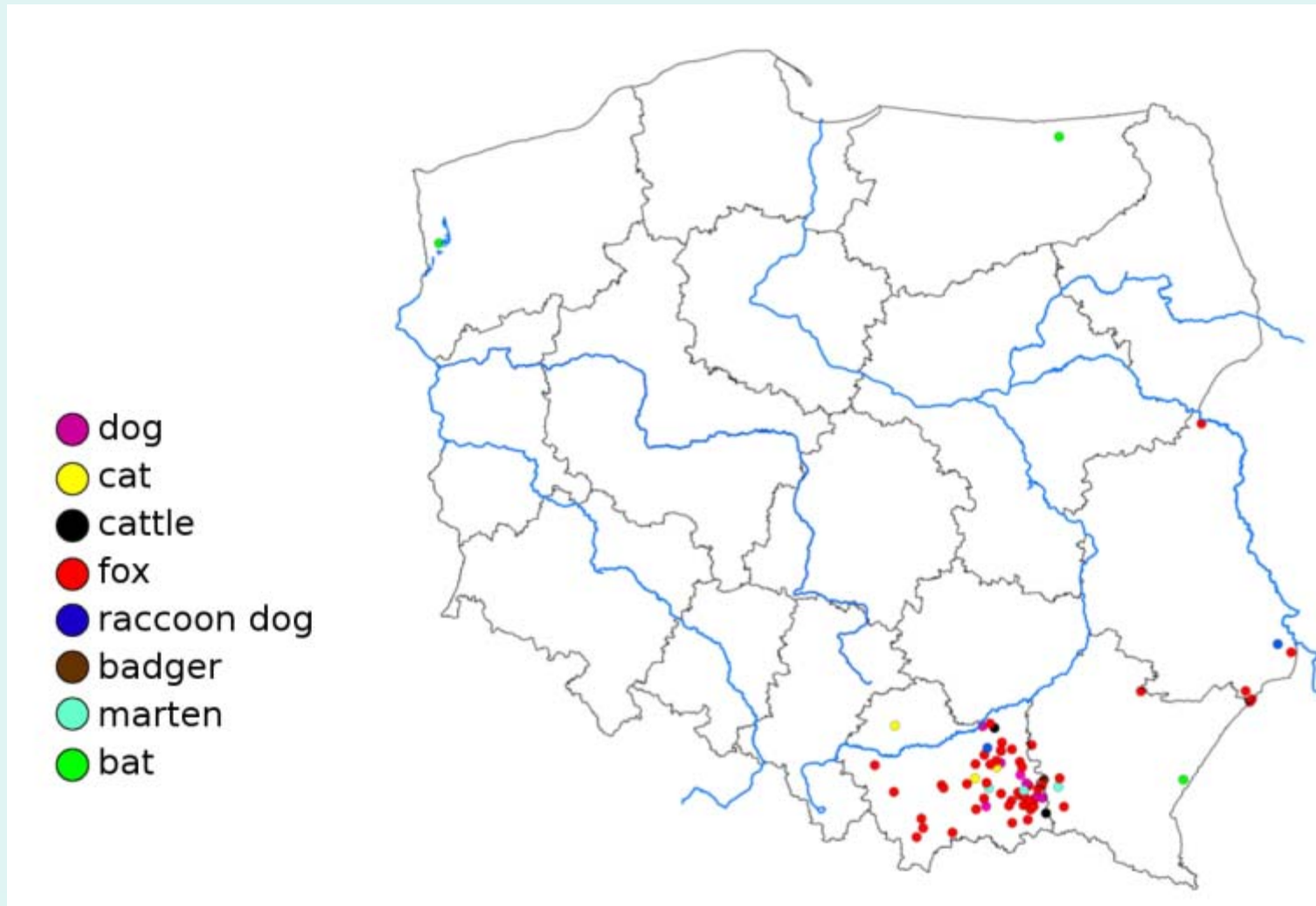
Number of animals tested in the framework of active surveillance:

- In Poland – 13 082;
- In the buffer zone in Ukraine – 880.



# Rabies occurrence in 2015

## Localization of rabies cases in Poland



# Rabies occurrence in 2015

## Cases of Rabies in Poland – Details

Area	Rabies cases																									
	Domestic animal									Wildlife																
Region	dog	cat	cattle	equine	sheep	goat	pig	stray dog	other	fox	raccoon dog	raccoon	wolf	badger	marten	other	mustelids	other	carnivores	wild boar	roe deer	red deer	fallow deer	other	bat	
dolnośląskie																										
kujawsko-pomorskie																										
lubelskie										6	1															
lubuskie																										
łódzkie																										
małopolskie	12	4	2							57	1				3											
mazowieckie																										
opolskie																										
podkarpackie										5				1	1											1
podlaskie																										
pomorskie																										
śląskie																										
świętokrzyskie																										
warmińsko-mazurskie																										2
wielkopolskie																										
zachodniopomorskie																										1
<b>Total</b>	<b>12</b>	<b>4</b>	<b>2</b>							<b>68</b>	<b>2</b>			<b>1</b>	<b>4</b>											<b>4</b>

Domestic animals

18

Wildlife

79

Total

97



# Rabies occurrence in 2015

## Cases of rabies in the buffer zone in Ukraine – Details

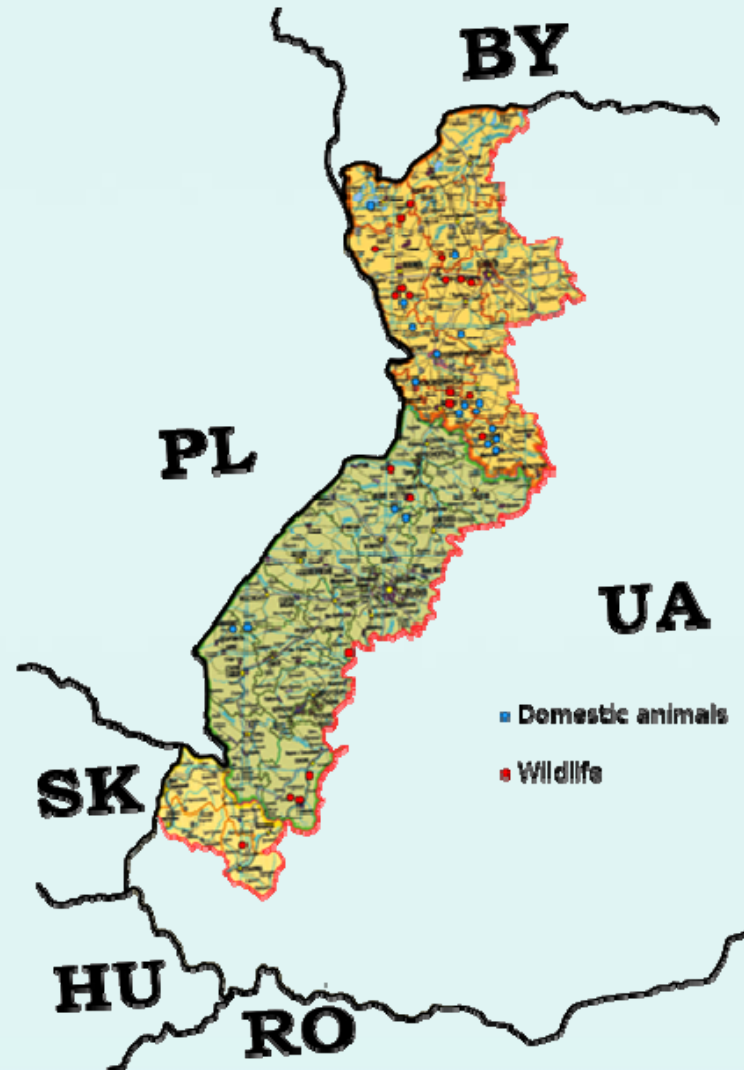
- Rabies cases in wildlife – 21;
- Rabies cases in other species – 19.





# Rabies eradication in 2015

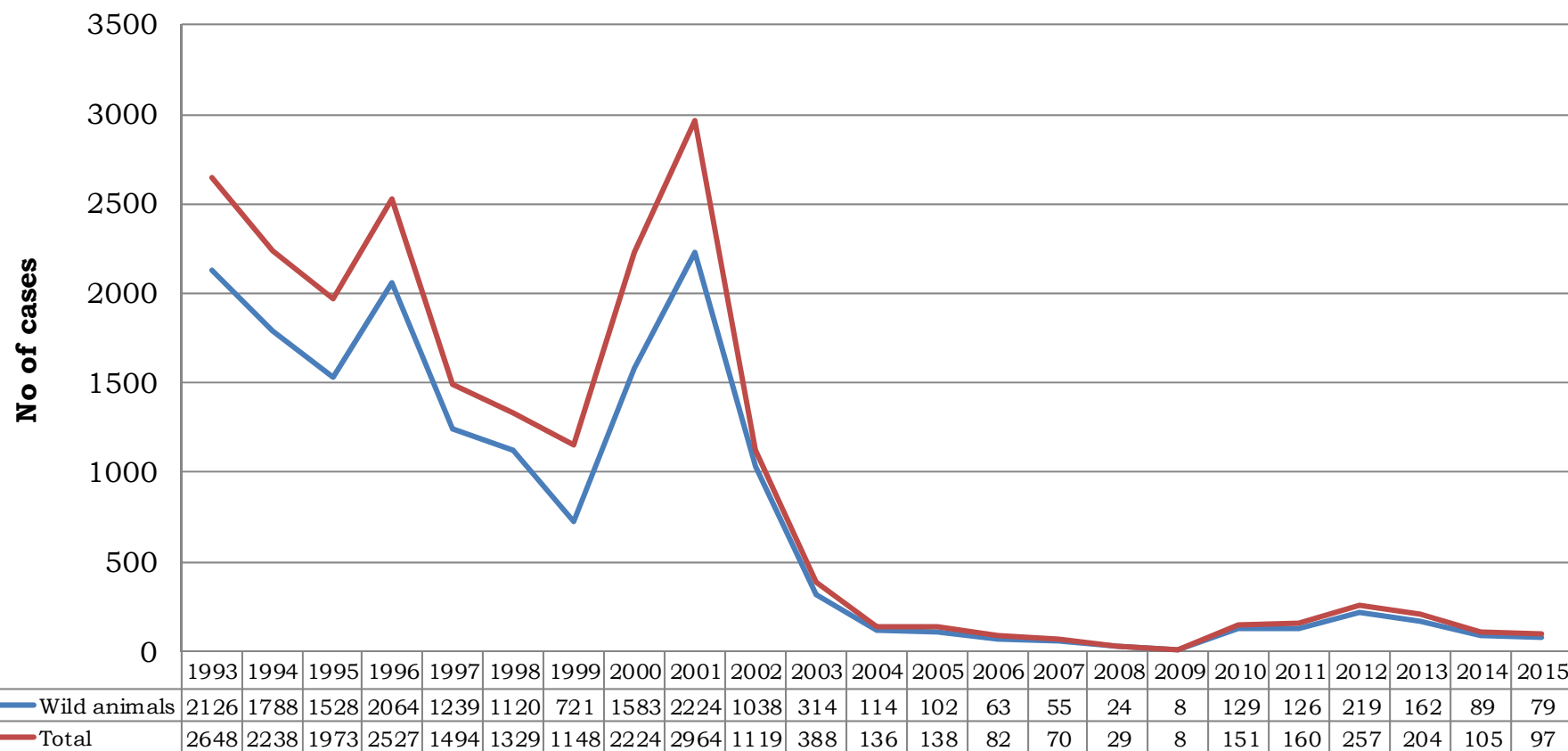
Localization of rabies cases in the buffer zone in Ukraine



# Rabies occurrence in 2015

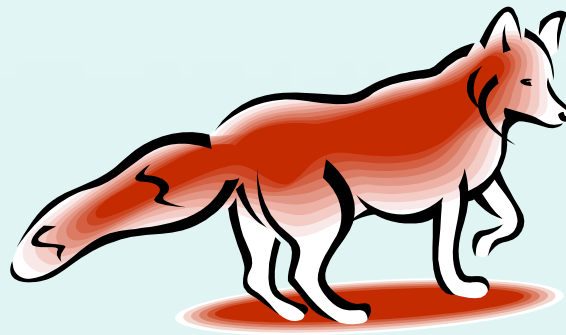
## No of cases in Poland

**Rabies cases in Poland in 1993-2015**



## Comparison with rabies situation in previous years

- Slight decrease of total number of rabies cases in Poland in comparison with the previous year;
- The most of rabies cases still localized in the south-eastern Poland;
- Only 5 rabies cases confirmed in animals other than bats in first five months of 2016 in Poland.



# THANK YOU FOR YOUR ATTENTION

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