

RESULTS OF THE IMPLEMENTATION OF 2016 RABIES ERADICATION PROGRAMME



**General Veterinary Inspectorate
Polish Veterinary Inspection**

Rabies eradication in 2016

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 2016

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, Malopolskie, Podkarpackie, Slaskie and Swietokrzyskie);
- Two regular vaccination campaigns carried out (spring and autumn);
- Additional campaign performed in the whole Malopolskie and Podkarpackie region due to the epizootic situation;
- Vaccine used for foxes' immunization: LYSVULPEN



Rabies eradication in 2016

Vaccination in Poland

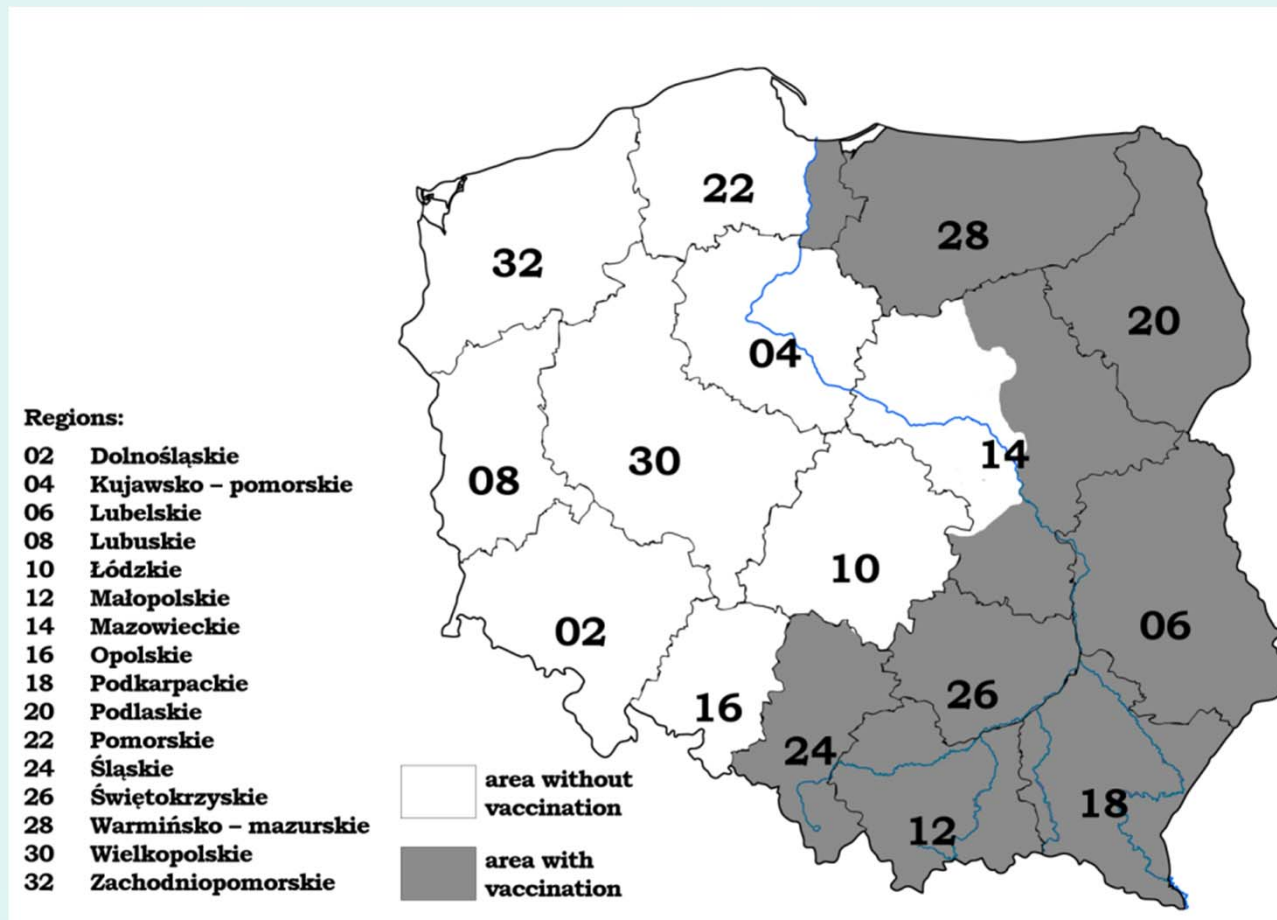
- Vaccination performed under the responsibility of competent regional veterinary officers, however coordinated at the central level;
- Number of vaccine baits varies between regions and depends on:
 - ✓ forestration level,
 - ✓ lay of the land,
 - ✓ wildlife population,
 - ✓ epizootic situation.
- Number of baits distributed (not less than 20 baits per 1 km²):
 - ✓ 30 baits per 1 km² in the part of Lubelskie region and whole Malopolskie, Podkarpackie and Swietokrzyskie region in spring and autumn campaign;
 - ✓ 25 baits per 1 km² in the part of Mazowieckie, Podlaskie and Warminsko-mazurskie region in spring and autumn campaign;
 - ✓ 25 baits per 1 km² in the whole Malopolskie and Podkarpackie region in additional campaign;
 - ✓ 20 baits per 1 km² in the rest of areas vaccinated in spring and autumn campaign;
- **In total 7 632 386** vaccine doses distributed in 2016.



Rabies eradication in 2016

Vaccination in Poland

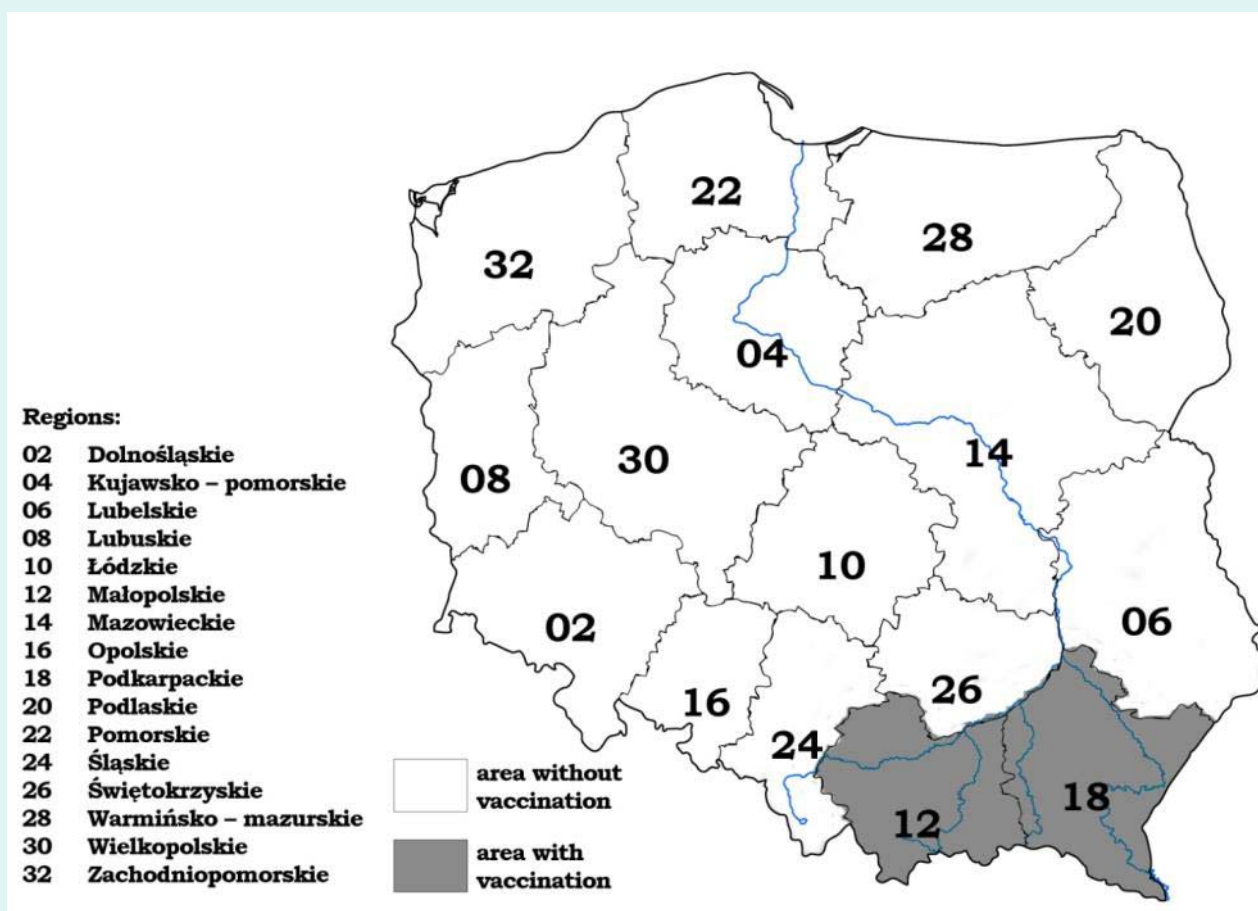
areas vaccinated in spring (May-June) and autumn campaign (September-October)



Rabies eradication in 2016

Vaccination in Poland

areas vaccinated in additional campaign in Malopolskie and Podkarpackie region (November-December)



Rabies eradication in 2016

Vaccination in the buffer zone in Ukraine

- Number of baits distributed - 25 baits per 1 km²;
- **In total 961 250** doses of vaccine distributed in 2016 (mostly by plane);
- Vaccine used for foxes' immunization – Brovarabies V-RG;
- Flight distances – approximately 500 m.



Rabies eradication in 2016

Vaccination

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



Spring campaign not performed due to organizational reasons.



Rabies eradication in 2016

Monitoring of 2016 vaccination effectiveness in Poland

<u>TARGET</u> 8 foxes to be shot per 100 km ² of foxes' habitat premisses covered by vaccination	<u>RESULTS</u> Foxes shot – 10 716
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (ELISA)	<u>RESULTS</u> Number of juvenile foxes tested – 3 327 Uptake level: 87.68% Number of adult foxes tested – 7 439 Uptake level: 91.49% Number of juvenile foxes tested – 2 657 Seroconversion level: 50.06% Number of adult foxes tested – 6 625 Seroconversion level: 56.41%



Rabies eradication in 2016

Monitoring of 2016 vaccination effectiveness in the buffer zone in Ukraine

<u>TARGET</u> 4 foxes to be shot per 100 km ² covered by vaccination	<u>RESULTS</u> Foxes shot – 1 538
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (ELISA)	<u>RESULTS</u> Number of juvenile foxes tested – 414 Uptake level: 64.01% Number of adult foxes tested – 984 Uptake level: 64.23% Number of foxes tested – 163 Seroconversion level: 38.65%



Rabies eradication in 2016

Number of animals tested in the framework of passive surveillance:

- In Poland – 3 635;
- In the buffer zone in Ukraine – 474.

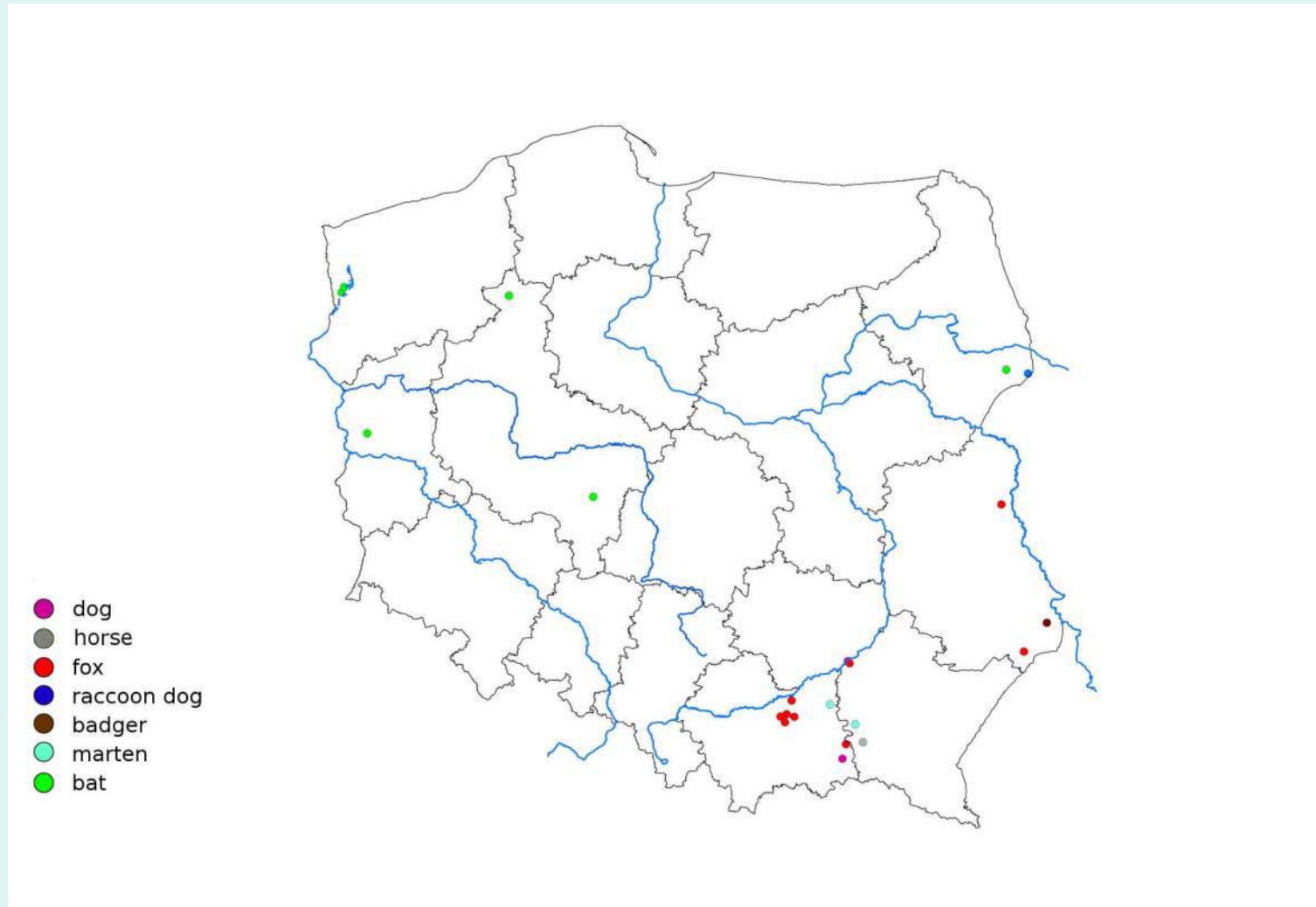
Number of animals tested in the framework of active surveillance:

- In Poland – 10 637;
- In the buffer zone in Ukraine – 1 387.



Rabies occurrence in 2016

Localization of rabies cases in Poland



Rabies occurrence in 2016

Cases of rabies in Poland – Details

Area	Rabies cases							
	Domestic animal			Wildlife				
Region	dog	equine		fox	raccoon dog	badger	marten	bat
Lubelskie				2		1		
Lubuskie								1
Malopolskie	1			6			1	
Podkarpackie	1	1		1			1	
Podlaskie					1			1
Wielkopolskie								2
Zachodniopomorskie								2
Total	2	1		9	1	1	2	6

Domestic animals

3

Wildlife

19

Total

22



Rabies occurrence in 2016

Cases of rabies in the buffer zone in Ukraine – Details

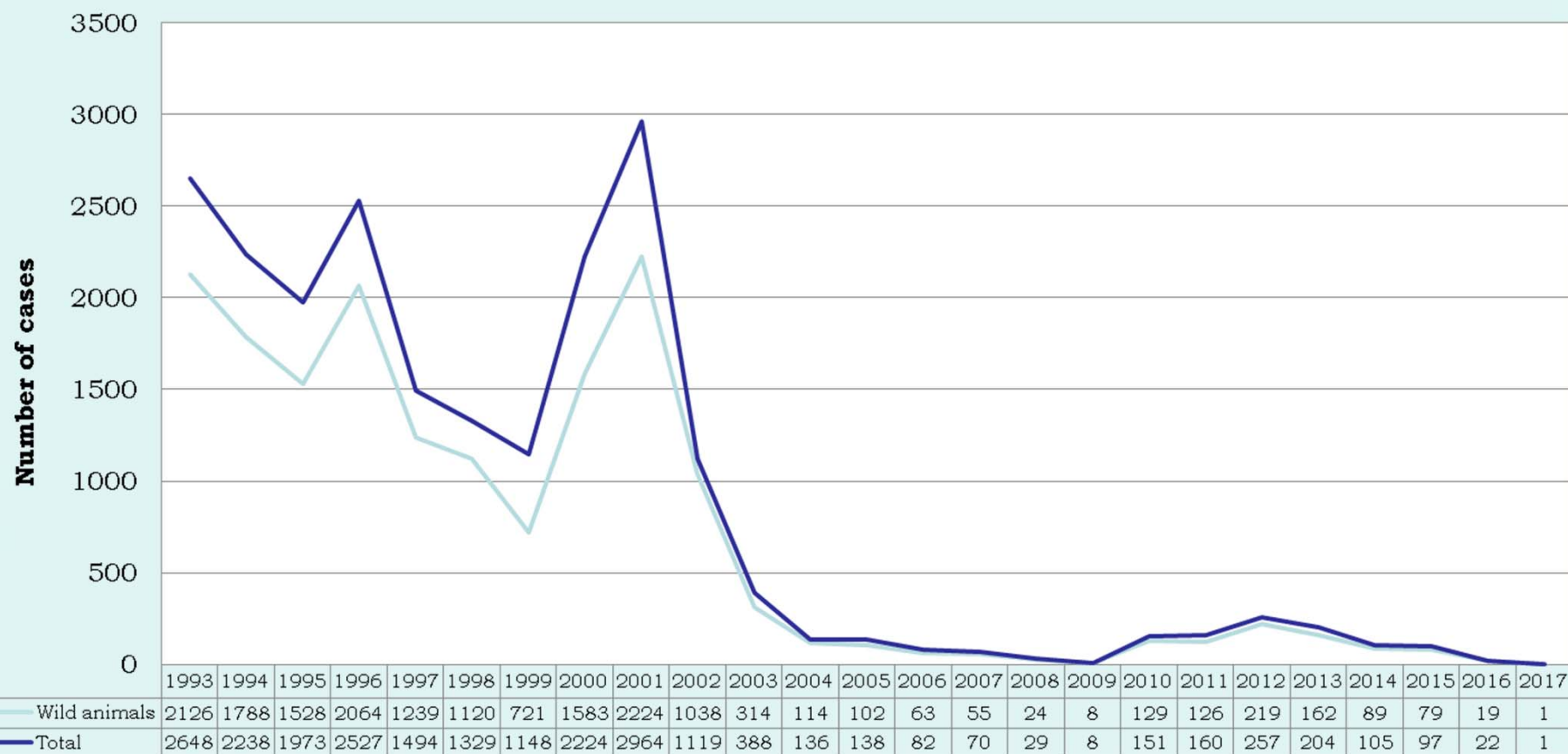
- Rabies cases in wildlife – 41;
- Rabies cases in other species – 65.



Rabies occurrence

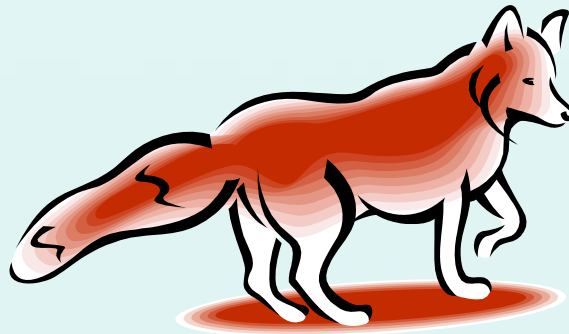
No of cases in Poland

Rabies cases in Poland in 1993-2017



Comparison with rabies situation in previous years

- Significant 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 1 rabies case confirmed in Poland in 2017.



THANK YOU FOR YOUR ATTENTION

E-mail contact address : pawel.makowski@wetgiw.gov.pl

