

RESULTS OF THE IMPLEMENTATION OF 2017 RABIES ERADICATION PROGRAMME



**General Veterinary Inspectorate
Polish Veterinary Inspection**

Rabies eradication in 2017

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 2017

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 2017

Vaccination in Poland

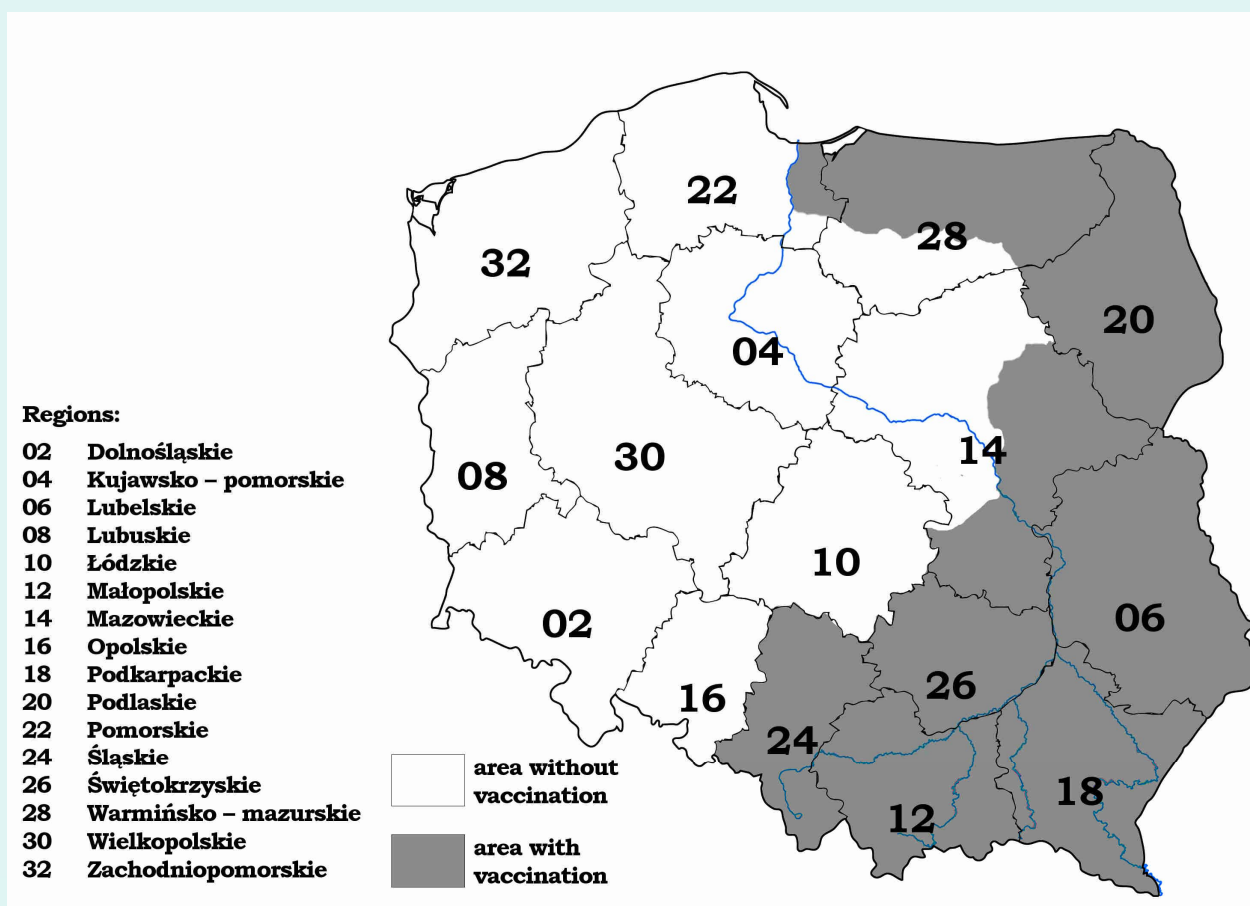
- Vaccination performed under the responsibility of competent regional veterinary officers, however coordinated at the central level;
- Number of vaccine baits varies between regions and depends on:
 - ✓ forestation level,
 - ✓ lay of the land,
 - ✓ wildlife population,
 - ✓ epizootic situation.
- Number 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 and Podkarpackie region in spring and autumn campaign;
 - ✓ 25 baits per 1 km² in the part of Mazowieckie and Podlaskie and whole Swietokrzyskie region in spring and autumn campaign;
 - ✓ 30 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 7 123 542** vaccine doses distributed in 2017.



Rabies eradication in 2017

Vaccination in Poland

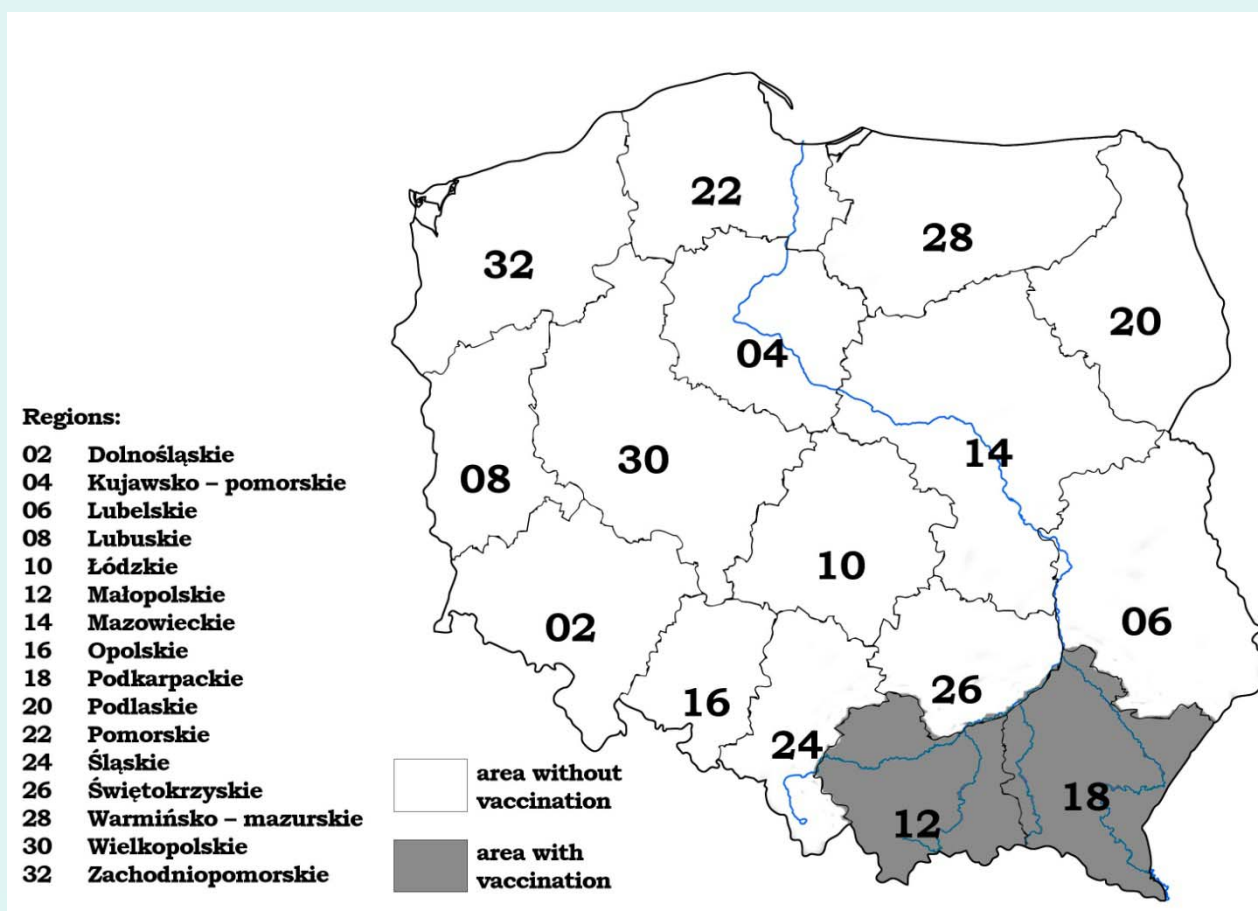
areas vaccinated in spring (April-May) and autumn campaign (September-October)



Rabies eradication in 2017

Vaccination in Poland

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



Rabies eradication in 2017

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 2017 (mostly by plane);
- Vaccine used for foxes' immunization – Brovarabies V-RG;
- Flight distances – approximately 500 m (mountainous areas up to 1000 m).



Rabies eradication in 2017

Vaccination

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



Spring campaign not performed due to organizational reasons.



Rabies eradication in 2017

Monitoring of 2017 vaccination effectiveness in Poland

<u>TARGET</u> 4 foxes to be shot per 100 km ² of foxes' habitat premisses covered by vaccination	<u>RESULTS</u> Foxes shot – 4 881
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (ELISA)	<u>RESULTS</u> Number of juvenile foxes tested – 984 Uptake level: 72.87% Number of adult foxes tested – 3 896 Uptake level: 91.48% Number of juvenile foxes tested – 906 Seroconversion level: 42.16% Number of adult foxes tested – 3 696 Seroconversion level: 52.71%



Rabies eradication in 2017

Monitoring of 2017 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 – 1 423
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (ELISA)	<u>RESULTS</u> Number of juvenile foxes tested – 551 Uptake level: 74.41% Number of adult foxes tested – 867 Uptake level: 77.28% Number of juvenile foxes tested – 415 Seroconversion level: 49.64% Number of adult foxes tested – 611 Seroconversion level: 46.48%



Rabies eradication in 2017

Number of animals tested in the framework of passive surveillance (FAT):

- In Poland – 3 769;
- In the buffer zone in Ukraine – 295.

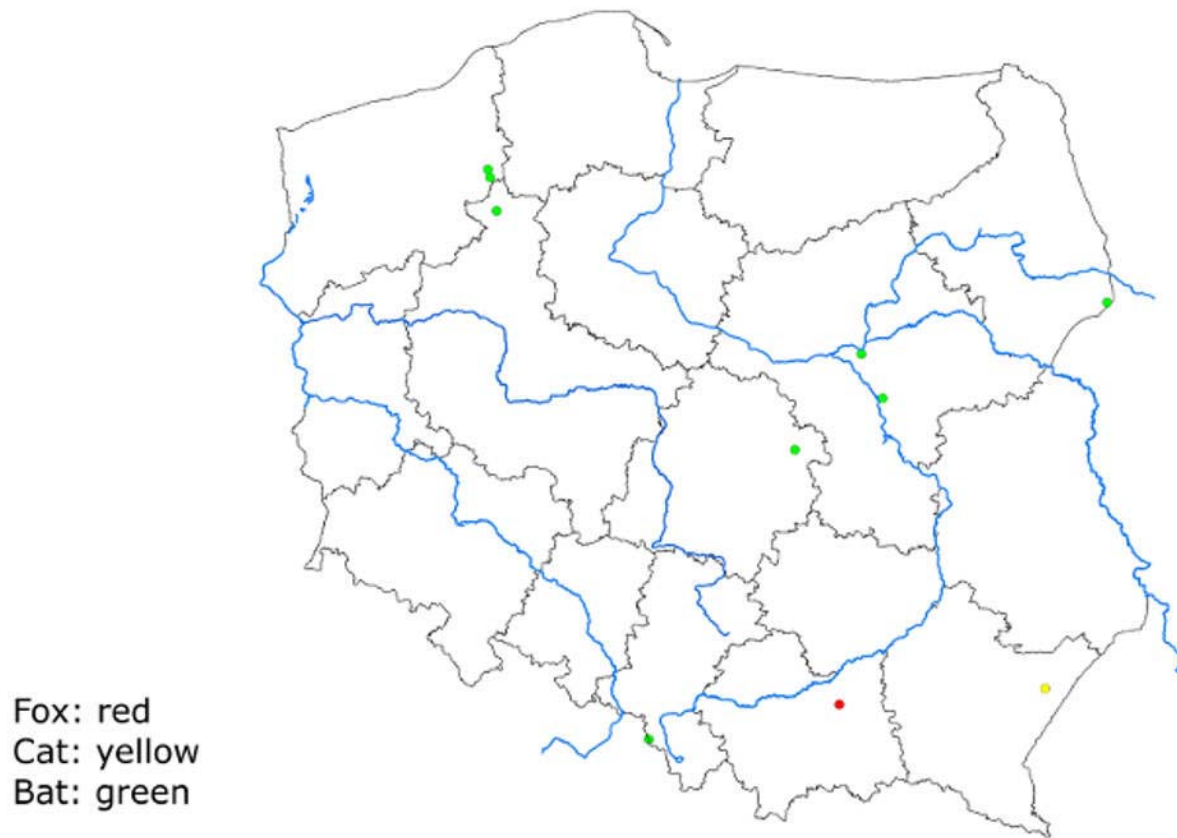
Number of animals tested in the framework of active surveillance (FAT):

- In Poland – 4 850;
- In the buffer zone in Ukraine – 1 423.



Rabies occurrence in 2017

Localization of rabies cases in Poland



Rabies occurrence in 2017

Cases of rabies in Poland – Details

Area	Rabies cases			
	Domestic animal		Wildlife	
Region	cat		fox	bat
Lodzkie				1
Malopolskie			1	
Mazowieckie				2
Podkarpackie	1			
Podlaskie				1
Slaskie				1
Wielkopolskie				1
Zachodniopomorskie				2
Total	1		1	8

Domestic animals

1

Wildlife

9

Total

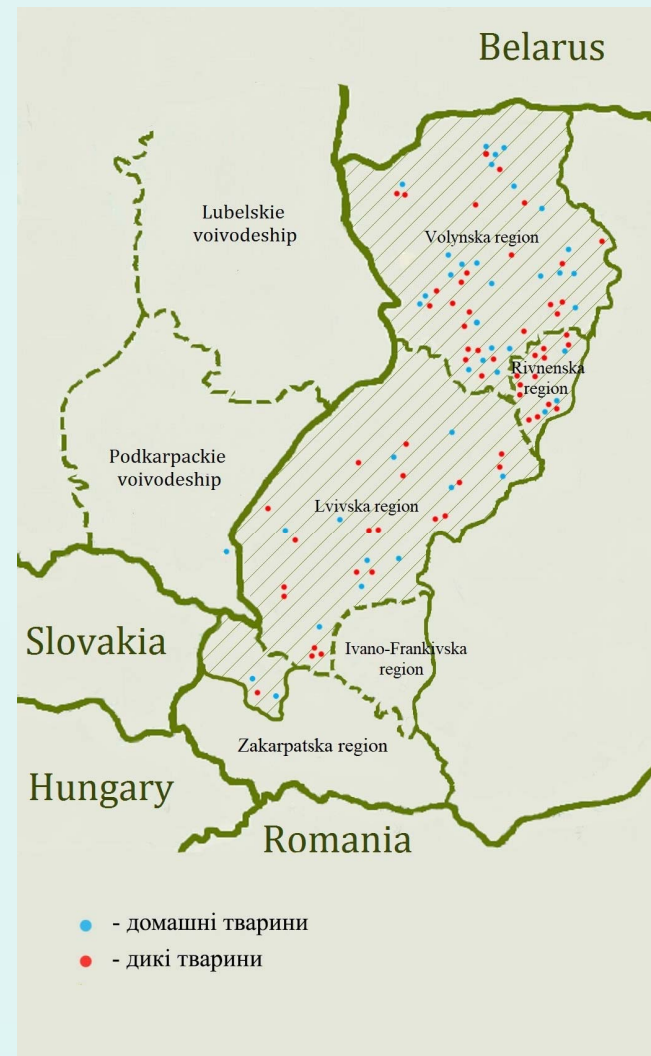
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Rabies occurrence in 2017

Cases of rabies in the buffer zone in Ukraine – Details

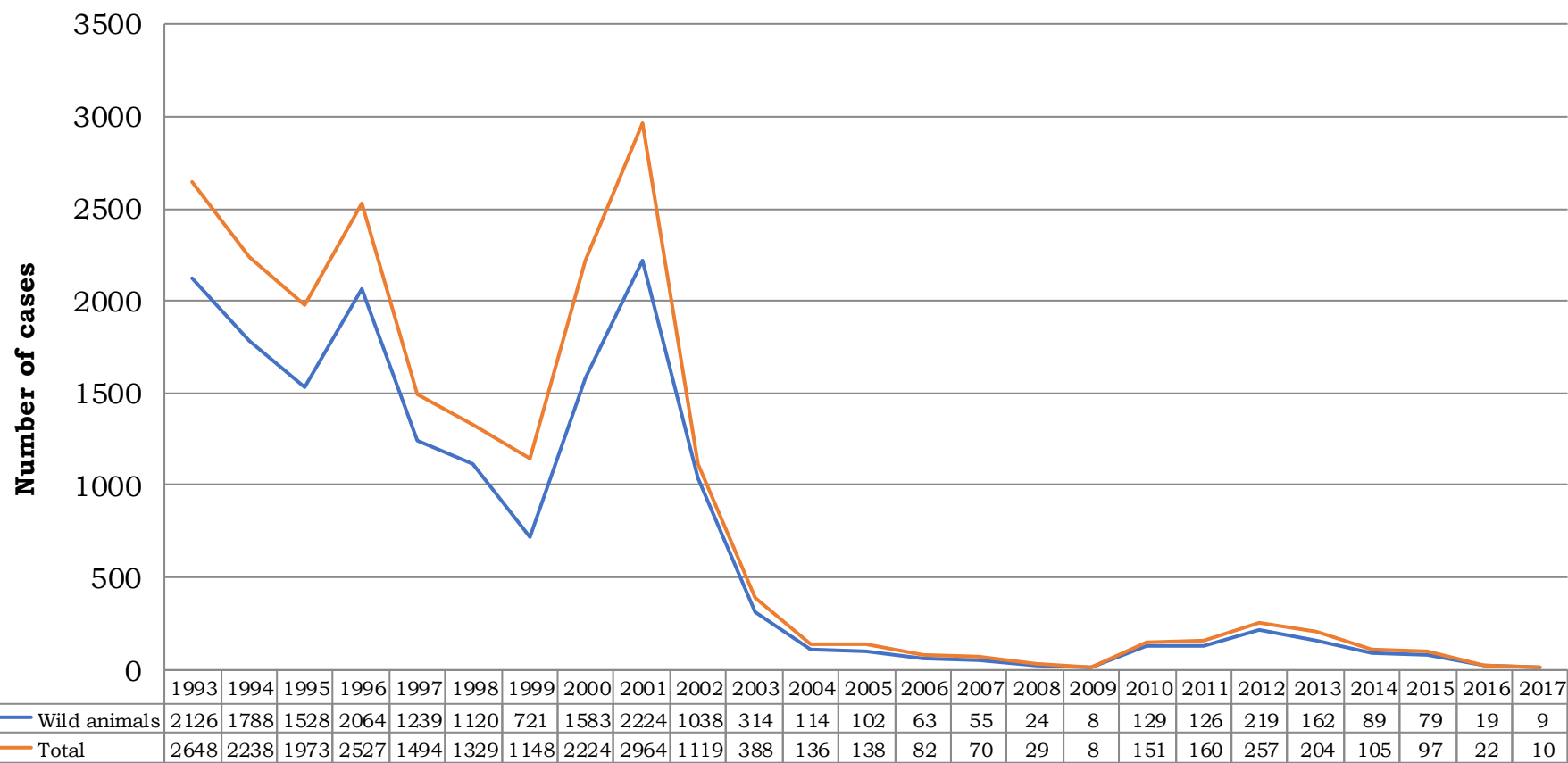
- Rabies cases in wildlife – 58;
- Rabies cases in other species – 40.



Rabies occurrence

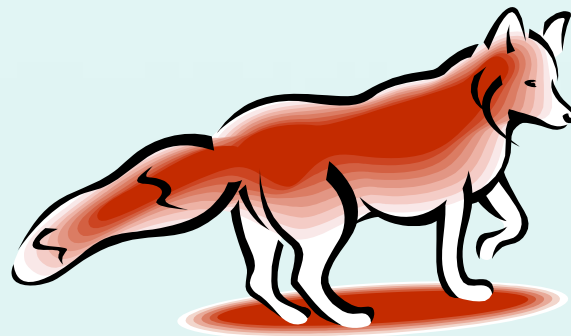
No of cases in Poland

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 remaining rabies cases still localized in the south-eastern Poland;
- Only 2 rabies cases confirmed in Poland in 2018.



THANK YOU FOR YOUR ATTENTION

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