

RESULTS OF THE IMPLEMENTATION OF THE 2013 RABIES ERADICATION PROGRAMME



**General Veterinary Inspectorate
Polish Veterinary Inspection**

11-12 September 2014, Brussels

Introduction

- Description of the programme:
 - Legal basis,
 - Description of vaccination,
 - Monitoring of vaccination effectiveness;
- Information on rabies occurrence in 2013:
 - Number and distribution of cases,
 - Comparison with situation in previous years;
- Co-financing aspects



Rabies eradication in 2013

Legal basis

Domestic legal basis:

- The Act of 11 March 2004 *on the protection of animal health and control of animal infectious diseases*;
- Regulation of the Ministry of Agriculture and Rural Development of 2 June 2004 *on detailed rules and manner of conducting preventive vaccinations of wild foxes against rabies*;
- Regulation of the Minister of Agriculture and Rural Development of 7 January 2005 *on the eradication of rabies*;
- Regulation of the Minister of Agriculture and Rural Development of 17 December 2004 *determining certain diseases, manner for carrying out the control and scope of control tests of animals' infections*;
- Regulation of the Council of Ministers of 9 April 2013 *on the introduction of programme of eradication of **rabies** and the survey programme for avian influenza in poultry and wild birds for 2013*.

International agreement:

- Agreement between the Minister of Agriculture and Rural Development of the Republic of Poland and the Minister of Agrarian Policy and Food of Ukraine *on the rabies eradication programme in Ukraine in 2013* (signed on 22 May 2013 in Kiev)

EU legal basis:

- Commission Decision 2012/761/EU;
- Commission Decision 2008/425/EC;
- Commission Decision 2008/940/EC.



Rabies eradication in 2013

Measures foreseen within the programme

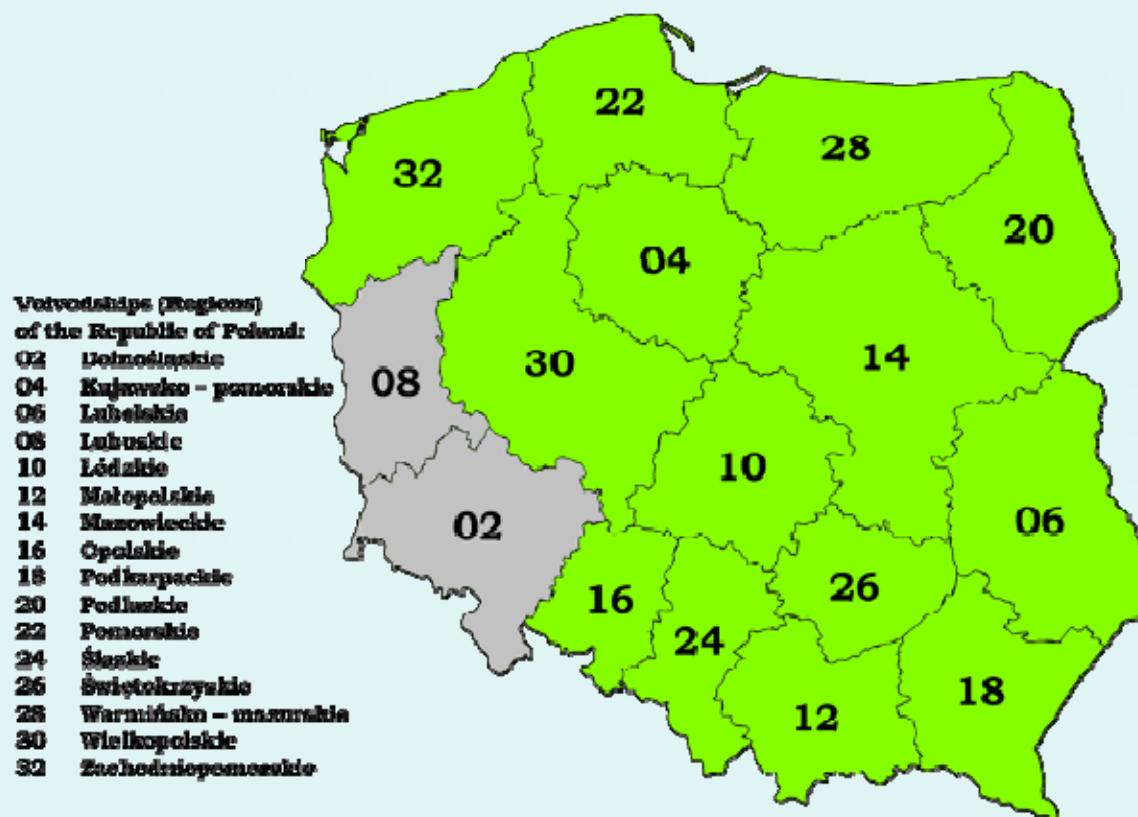
- Oral vaccination of wild foxes;
- Monitoring of vaccination effectiveness;
- Other measures implemented in outbreaks and surveillance zones.



Rabies eradication in 2013

Vaccination

areas vaccinated in the spring campaign (April-May) in Poland



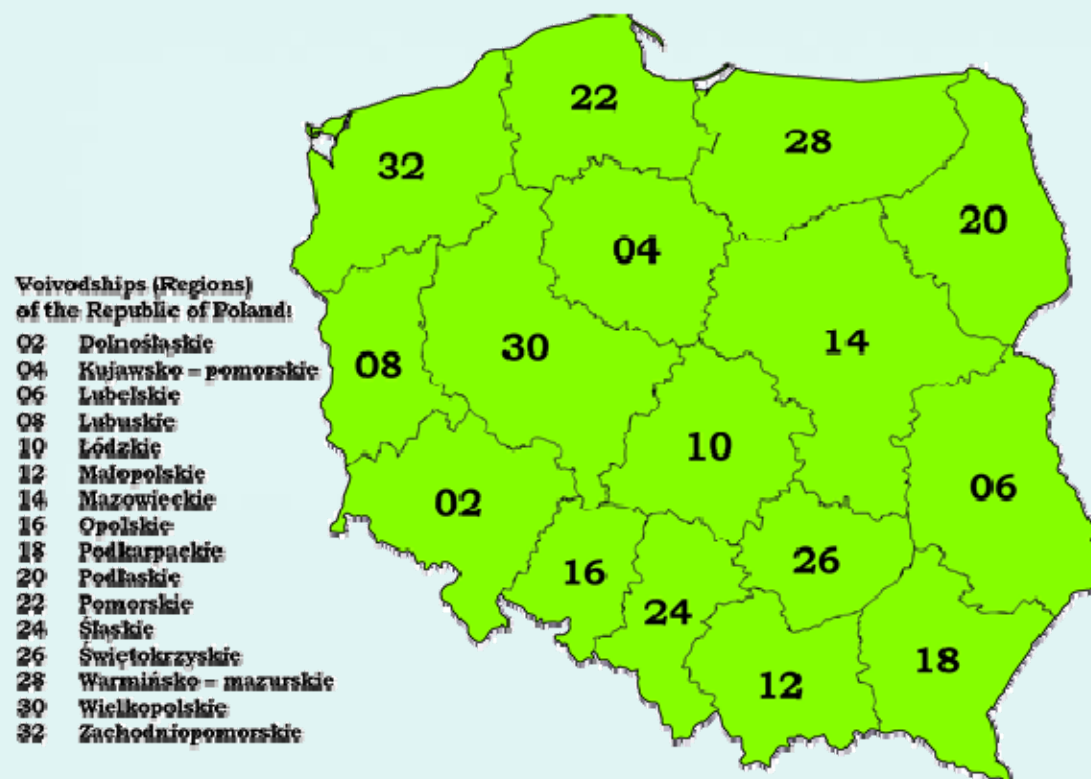
Only dolnośląskie and lubuskie regions were not covered in the spring campaign.



Rabies eradication in 2013

Vaccination

areas vaccinated in the autumn campaign (September-October) in Poland



Autumn campaign covered all regions (281 913,54 km²).



Rabies eradication in 2013

Vaccination

areas vaccinated in the spring (May-June) and autumn campaign (October) in the buffer zone in Ukraine



Spring and autumn campaigns covered the territory of 26 400 km².



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Rabies eradication in 2013

Vaccination in Poland

- The vaccine was distributed either from the planes or manually;
- **Plane distribution** has been performed in forest areas and wild foxes habitats (planes are equipped with GPS);
- Flight distances – 1 km, except for parts of lubelskie, mazowieckie, podlaskie, śląskie and warmińsko-mazurskie regions and the whole małopolskie and podkarpackie regions where flight distances were 500 m;
- **Manual distribution** has been performed in municipal agglomerations, dumping grounds, parks in cities, or cementaries (in 5 regions: lubelskie, lubuskie, małopolskie, podkarpackie, śląskie).
- Vaccines used for foxes' immunization:
 - FUCHSORAL and
 - LYSVULPEN.



Rabies eradication in 2013

Vaccination in Poland

- Vaccination performed under the responsibility of the competent regional veterinary officers;
- Number of vaccine baits varies between regions and depends on:
 - ✓ forestration level,
 - ✓ lay of the land,
 - ✓ wildlife population,
 - ✓ distribution method;
- Number of baits distributed (not less than 20 baits per 1 km²):
 - ✓ 30 baits per 1 km² in the part of lubelskie, mazowieckie, podlaskie, śląskie and warmińsko-mazurskie regions,
 - ✓ 30 baits per 1 km² in the whole małopolskie and podkarpackie regions,
 - ✓ 20 baits per 1 km² in the rest of areas vaccinated;
- **In total 12 111 644** doses of vaccine distributed in 2013.



Rabies eradication in 2013

Vaccination in the buffer zone in Ukraine

- Number of baits distributed - 25 baits per 1 km²;
- **In total 1 320 000** doses of vaccine distributed in 2013;
- Vaccine used for foxes' immunization – Brovarabies V-RG;
- Air distribution – 1 315 950 baits;
- Manual distribution – 4 050 baits;
- Flight distances – not more than 1 km.



Rabies eradication in 2013

Monitoring of 2013 vaccination effectiveness in Poland

<u>TARGET</u> 8 foxes to be shot per 100 km ² of foxes' habitat premisses covered by vaccination (in total - 21 837)	<u>RESULTS</u> Foxes shot – 22 479
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (RFFIT)	<u>RESULTS</u> Number of foxes tested – 21 547 Uptake level: 86,05% Number of foxes tested – 17 049 Seroconversion level: 75,11%



Rabies eradication in 2013

Monitoring of 2013 vaccination effectiveness in the buffer zone in Ukraine

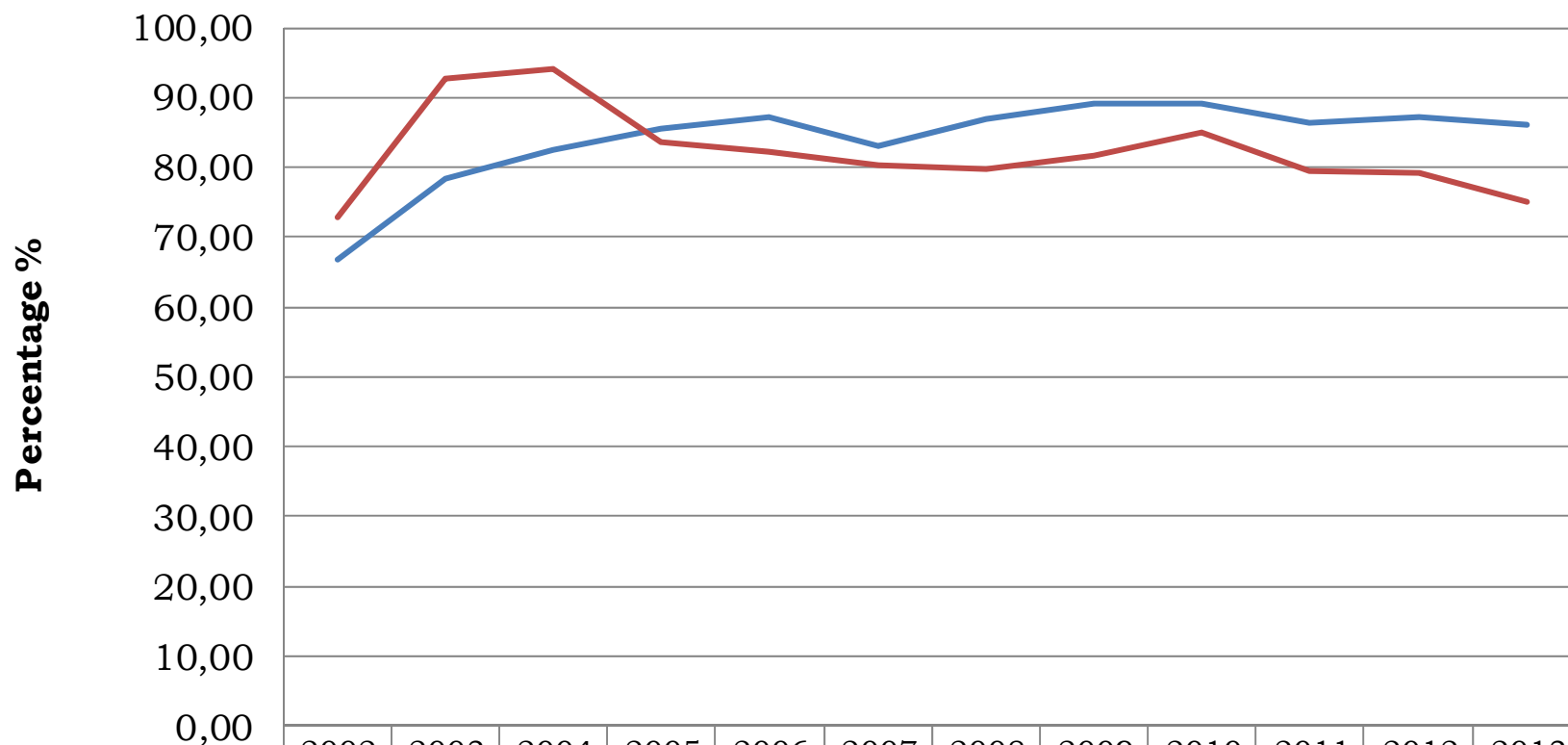
<u>TARGET</u> 4 foxes to be shot per 100 km ² covered by vaccination (in total – 1 056)	<u>RESULTS</u> Foxes shot – 967
<u>TESTS</u> Uptake of vaccine (TC) Seroconversion (ELISA)	<u>RESULTS</u> Number of foxes tested – 967 Uptake level: 37,75% Number of foxes tested – 588 Seroconversion level: 37,59%



Rabies eradication in 2013

Results of vaccination in Poland

Vaccine uptake and seroconversion levels in foxes in 2002-2013

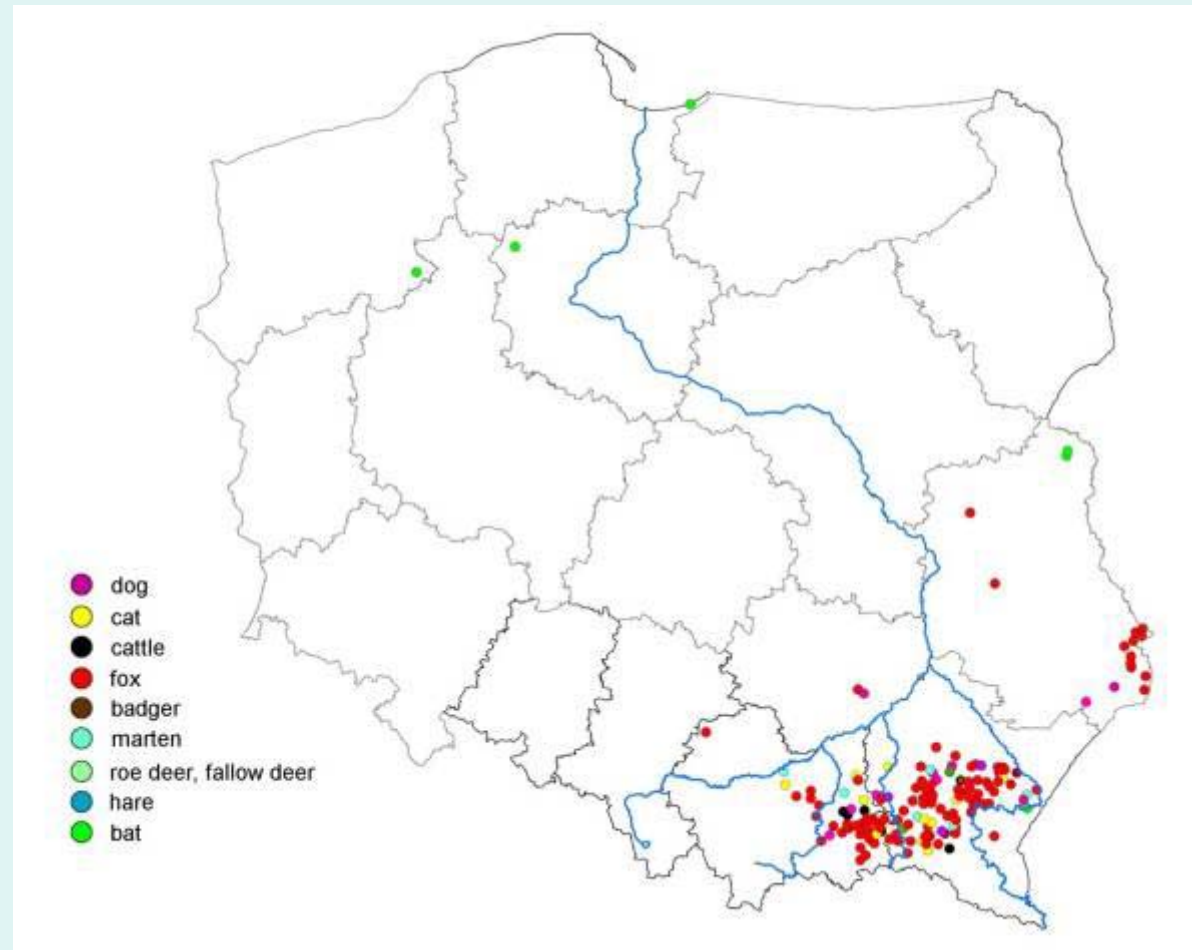


	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
— Vaccine uptake (%)	66,70	78,40	82,50	85,56	87,17	83,17	86,87	89,12	89,15	86,49	87,10	86,05
— Seroconversion (%)	72,90	92,60	94,00	83,60	82,12	80,21	79,66	81,72	84,90	79,50	79,29	75,11



Rabies occurrence in 2013

Localization of rabies cases in Poland



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Rabies occurrence in 2013

Cases of Rabies in Poland – Details

Area	Rabies cases										Wildlife													
	Domestic animal																							
Region	dog	cat	cattle	equine	sheep	goat	pig	stray dog	other		fox	raccoon dog	raccoon	wolf	badger	marten	other small mammals	other	wild boar	roe deer	red deer	fallow deer	other	bat
dolnoslaskie																								
kujawsko-pomorskie																								1
lubelskie	2										18													2
lubuskie																								
lodzkie																								
malopolskie	6	4	6								59			1	3									
mazowieckie																								
opolskie																								
podkarpackie	4	10	1					4			44			5	4					2	2	1	3	
podlaskie																								
pomorskie																								1
slaskie																								
swietokrzyskie	1										1													
warmiasko-mazurskie																								
wielkopolskie																								
zachodniopomorskie																								1
Total	17	14	7					4			136			4	9					2	2	1	8	

Domestic animals

42

Wildlife

162

Total

201



Rabies occurrence in 2013

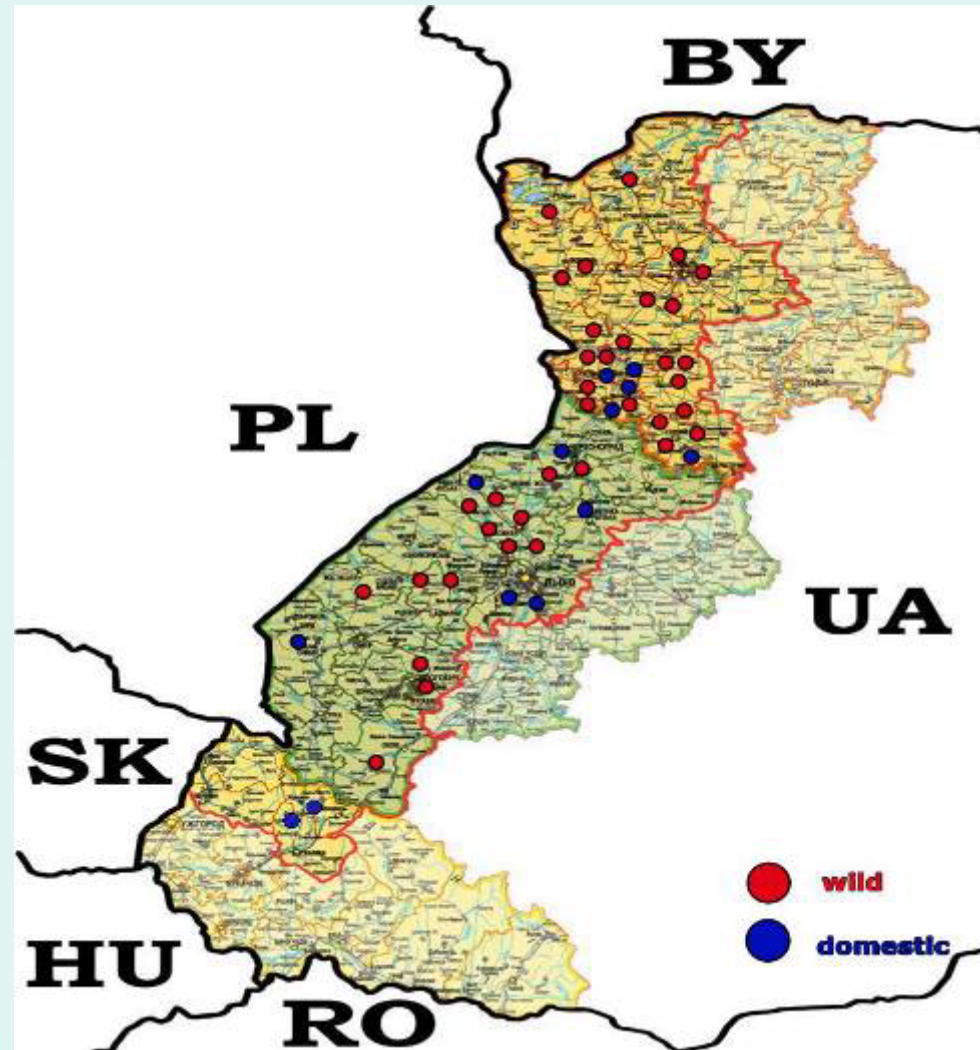
Cases of rabies in the buffer zone in Ukraine – Details

- Rabies cases in foxes – 33;
- Rabies cases in other species – 16.



Rabies eradication in 2013

Localization of rabies cases in the buffer zone in Ukraine

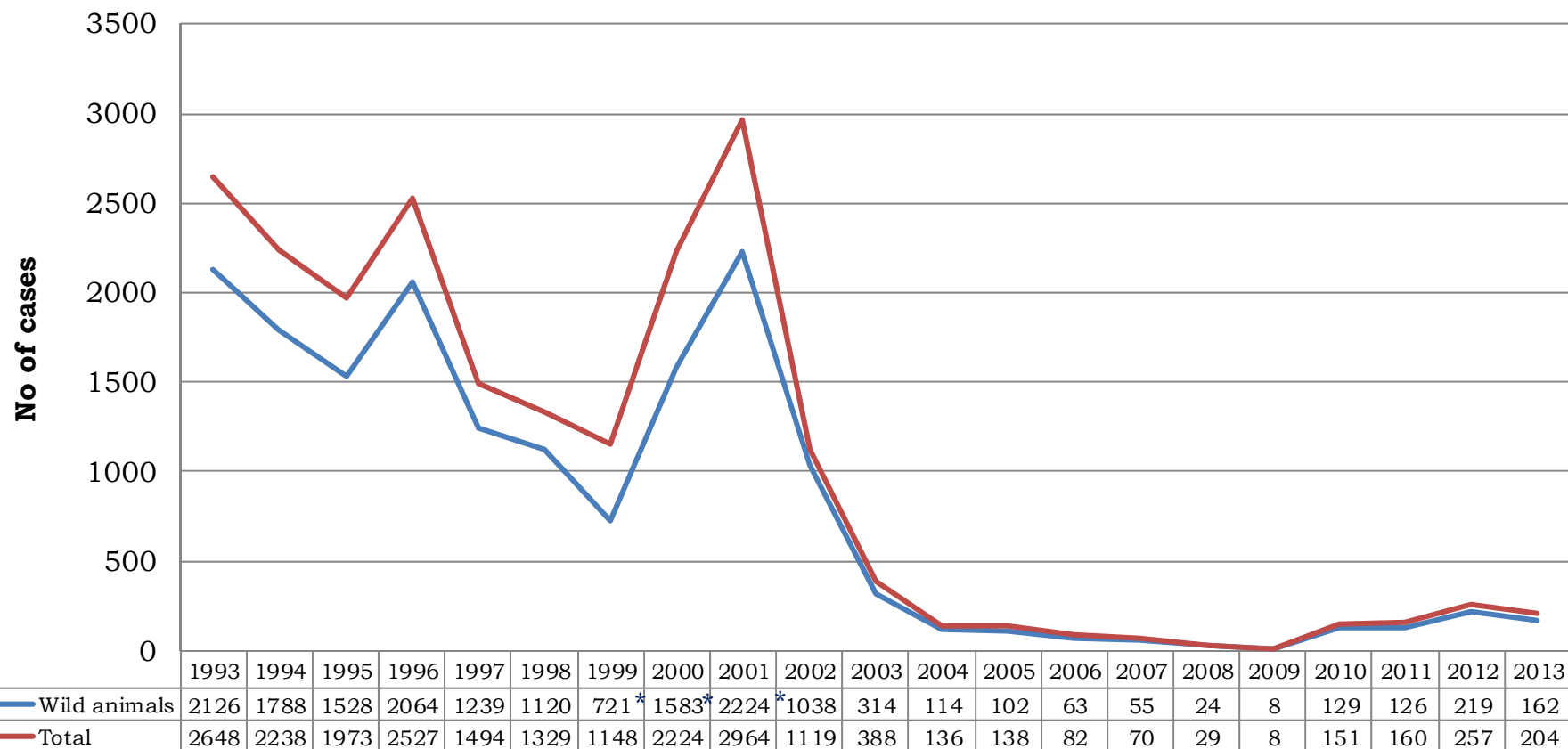


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Rabies occurrence in 2013

No of cases in Poland

Rabies cases in Poland in 1993-2013

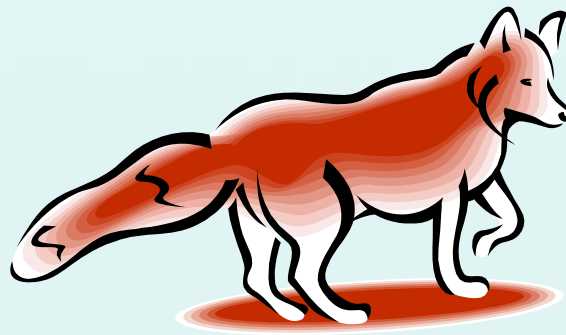


* - only wild foxes are indicated



Comparison with rabies situation in previous years

- Decrease of total number of rabies cases in Poland in comparison with the previous year (↓20%);
- The most of rabies cases still localized in the south-eastern Poland.



Rabies eradication in 2013

Co-financing

Eligible costs:

- Cost of vaccine doses and baits in Poland and in the buffer zone in Ukraine;
- Cost of vaccine distribution in Poland and in the buffer zone in Ukraine;
- Rapid fluorescent focus inhibition tests (RFFIT) in Poland;
- Tests for the presence of tetracycline in bones cuts (TC) in Poland;
- Differentiation of rabies virus strains in Poland;
- Immunofluorescence of the brain imprints in Poland;
- Virus isolation in Poland;
- Tests for the quality of vaccine in Poland;
- Lump sum per wild animal sampled in Poland.



Co-financing (Commission Decision 2012/761/EU, 2013/403/EU):



Maximum amount of the Union's financial contribution: 6 850 000 €



THANK YOU FOR YOUR ATTENTION

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