



Ministry of Agriculture

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**RABIES ERADICATION  
PROGRAMME IN HUNGARY  
IMPLEMENTED IN 2019**

Standing Committee of Plants, Animals, Food and Feed

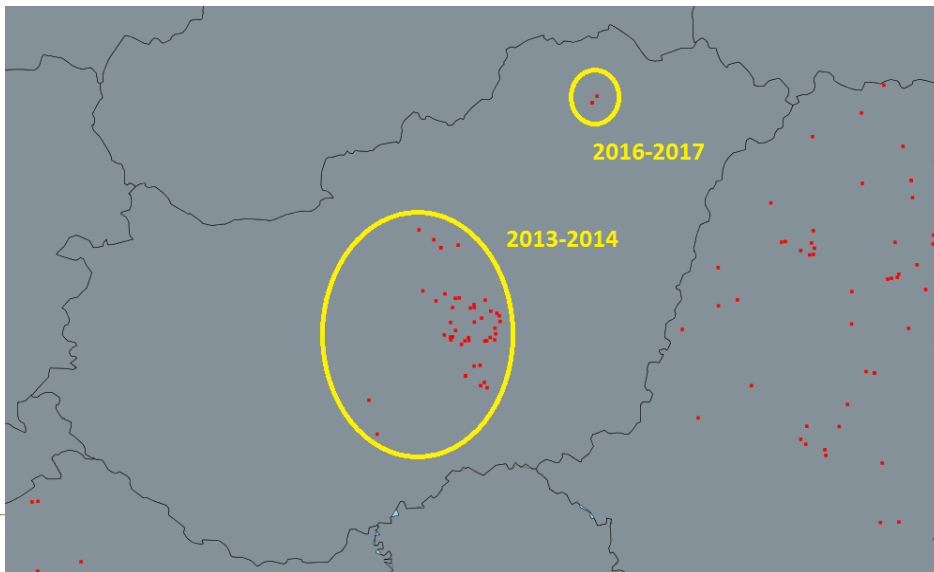
23-24 September 2020

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# Rabies situation - 2015-2020

- 2015 - no rabies cases in Hungary
- 2016 - 1 red fox (Borsod-Abaúj-Zemplén county)
- 2017 - 1 red fox and 2 goats from the same farm (Borsod-Abaúj-Zemplén county)
- 2018 - no rabies cases in Hungary (EBLV in bats)
- 2019 - no rabies cases in Hungary
- 2020 - no rabies cases in Hungary up to September 2020



Virus strain isolated in 2016&2017 was different from the 2013-2014 strain



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# Rabies surveillance 2019

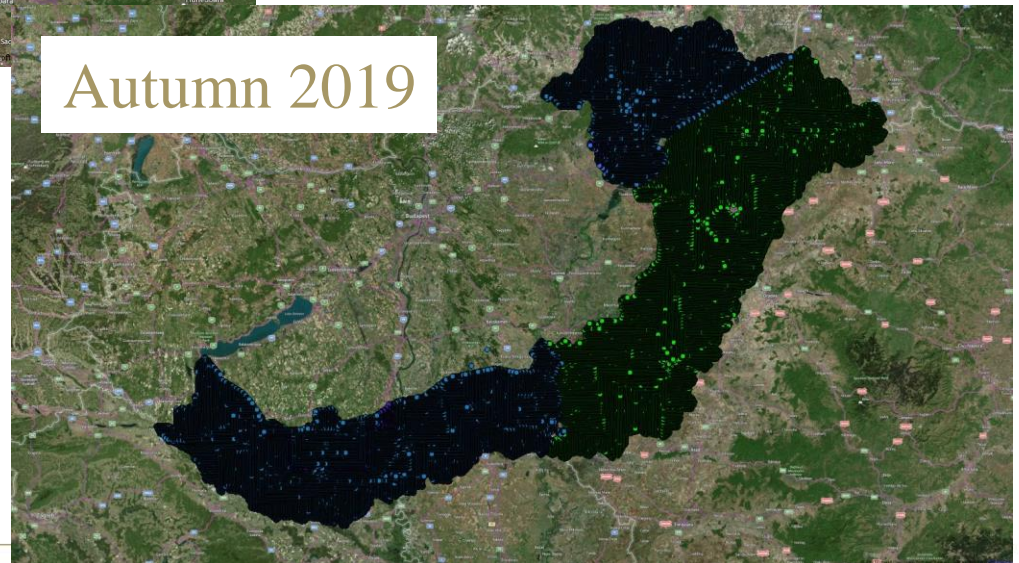
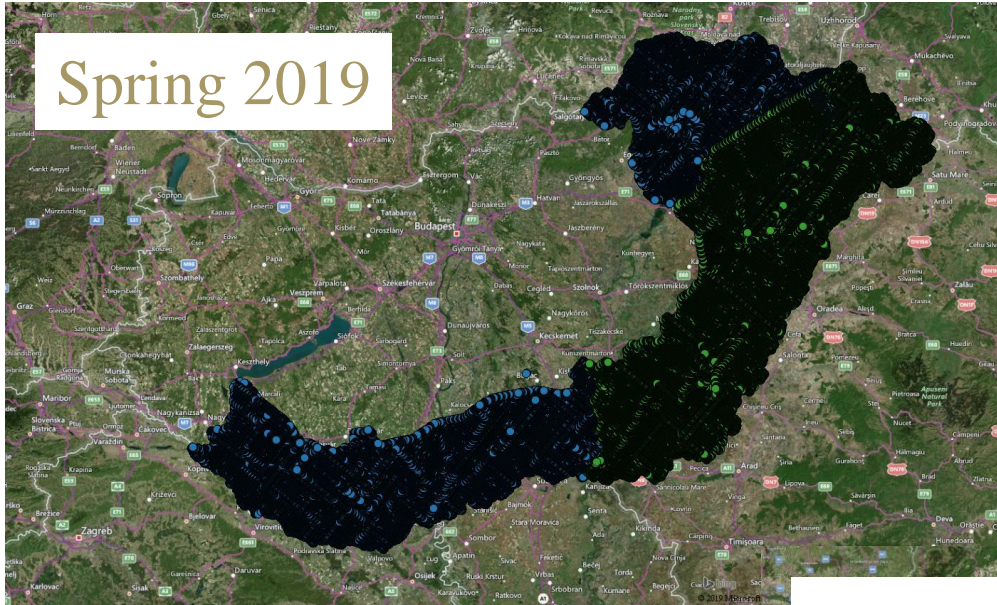
Type of test	Number of FAT tests performed HUNGARY	Number of FAT tests performed B-A-Z county	Number of positive samples
2019 active surv. (fox, immunisation area)	1557	286	0
2019 active surv. (jackal, immunisation area)	132	9	0
2019 passive surv. (wild animals, whole country)	384	31	0
2019 passive surv. (domestic animals, whole country)	607	43	0
2019 passive surv. (bats, whole country)	14	0	0

# Oral immunisation programme 2019

Campaigns 2019	Area (km <sup>2</sup> )	Bait density	Number of baits distributed
Spring (March-April 2019)	41 970	20 baits/km <sup>2</sup>	839 400 (Lysvulpen)
Autumn (October 2019)	41 970	20 baits/km <sup>2</sup>	839 400 (Lysvulpen)



# Oral immunisation programme





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## Results 2019/2020 hunting year – fox

Type of test	Type of sample	Number of tests performed	Number of positive samples
Virological test Immunfluorescence test (FAT)	Brain (red fox)	1582	0 (0,00%)
Bone polishing (Tetracycline detection)	Mandible (red fox)	1563	1117 (71,47%)
Serological test AB-ELISA	Blood (red fox)	1206	297 (24,63%)



## Age distribution (fox)

Tetracycline, fox	Nr of samples	Positive	Positive%
Juvenile	1190	767	64,45
Adult	373	350	93,83
<b>Total</b>	<b>1563</b>	<b>1117</b>	<b>71,47</b>

ELISA, fox	Nr of samples	Positive	Positive%
Juvenile	894	169	18,9
Adult	312	128	41,03
<b>Total</b>	<b>1206</b>	<b>297</b>	<b>24,63</b>



## Results 2018/2019 hunting year – jackal

Type of test	Type of sample	Number of tests performed	Number of positive samples
Virological test Immunfluorescence test (FAT)	Brain (jackal)	132	0 (0,00%)
Bone polishing (Tetracycline detection)	Mandible (jackal)	135	99 (73,33%)
Serological test AB-ELISA	Blood (jackal)	112	31 (27,68%)





## Oral vaccination programme in Ukraine

- Agreement between Hungary and Ukraine signed in 2018 (covering years 2018-2020).
  - The buffer zone in Ukraine covers districts in Zakarpattia Oblast (7.600 km<sup>2</sup>) and Ivano-Frankivska Oblast (2.600 km<sup>2</sup>)
  - Two successful rabies oral vaccination campaigns were performed in the buffer zone in 2019.
  - The bait uptake and seroconversion results are satisfactory.
  - 23 rabies cases were detected in the buffer zone in 2019 (13 domestic animals + 10 wild animals).
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## The way ahead & challenges

- Successful 2020 spring campaign, upcoming 2020 autumn campaign
  - New public tender for 2021 (vaccine purchase, vaccination) soon to be launched
  - Future: available vaccines / vaccines offered in public tenders?
  - Need for long term vaccination programme in the UA buffer zone!
  - Delay in the submission&approval of 2021 programmes might affect the 2021 spring campaign in UA
  - Maintain & improve passive surveillance: awareness campaigns (homepage, TV-spot, leaflets, hotline)
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**Thank you for your  
attention!**

