



GF-TADs

GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



Food and Agriculture
Organization of the
United Nations



World Organisation
for Animal Health
Founded as OIE

Session on rabies surveillance

GF TADs SGE RAB6

Report by North Macedonia

Standing Group of Experts on Rabies for Europe under the GF-TADs umbrella

6th meeting (SGE RAB6)

11th July 2024

In-person meeting

Brussels, Belgium

Rabies epidemiological situation

- Last year of occurrence of Rabies in domestic animals :
2012, Cat in Jargulica, Radovish
- Last year of occurrence of Rabies in wildlife :
2012, Wolf in Glavovica, Kocani
- Last year of occurrence of Rabies in humans :
1976, 1 person in Debar
- Last year of occurrence of imported Rabies cases:
No imported cases of rabies neither in animals nor in humans



Oral rabies vaccination

Year*	Campaign carried out		Spring campaign		Autumn campaign			Area covered (please mark with X as appropriate)		Financing (EU/ National/other)
	YES	NO	Start Date	End Date	Start Date	End Date	Whole country	Other (please describe)	EU	
2010		x								
2011	x		May 19 th	June 9 th	October 11 th	October 31 th	x		EU	
2012	x		*	*	October 19 th	November 3 th	x		EU	
2013	x		April 4 th	April 28 th	September 28 th	November 22 th	x		EU	
2014	x		April 22 th	June 6 th	September 25 th	October 10 th	x		EU	
2015	x		/	/	November 5 th	November 18 th	x		EU	
2016	x		April 11 th	April 27 th	October 1 th	October 12 th	x		EU	
2017	x		April 20 th	April 28 th	October 26 th	November 3 th	x		EU	
2018	x		April 10 th	April 23 th	October 26 th	November 3 th	x		EU	
2019	x		April 4 th	April 21 th	October 15 th	November 16 th	x		EU	
2020		x	*	*	*	*				
2021	x		No spring campaign		December 18 th	January 2 th	2022	x		EU
2022	x		May 12 th	May 20 th	No (remark postponed for January 2023)		x		EU	
2023	x		January 4 th	January 16 th	*	*	x		EU	
			May 12 th	June 10 th			x		EU	

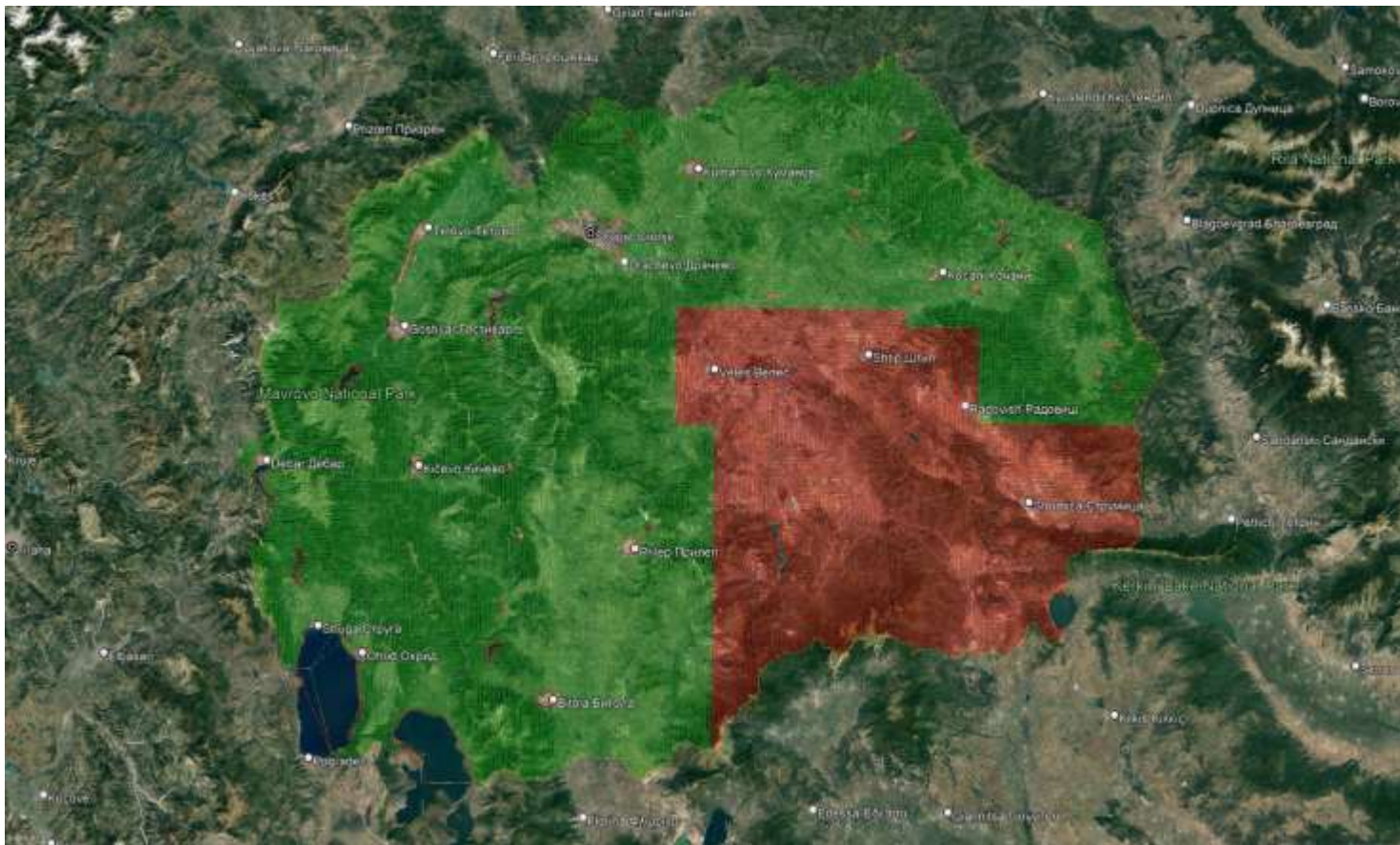
*No ORV campaign: "not planned"/ ORV Planned but not implemented: "omitted"

Map of the last vaccination area

Map 1. Presented distribution area coverage over all mountain area, excluding water surfaces. This distribution plan is active from 2018

Skopje

Stip



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Surveillance (Detection of rabies virus)

year	Number of tested animals-passive surveillance		Number of tested animals-active surveillance	
	negative	positive	negative	positive
2017	5	0	41	0
2018	7	0	233	0
2019	17	0	143	0
2020	11	0	122	0
2021	143	0	142	0
2022	17	0	87	0
2023	23	0	39	0
2024*	5	0	80	0

* up to 31 May 2024

- Passive surveillance: tests performed in suspect and dead wild animals (FAT/RT-PCR). If relevant, tests performed on **domestic animals** may be reported and differentiated (**number between brackets**).
- Active surveillance: tests performed in healthy hunted animals in the frame of the monitoring programme to verify effectiveness of vaccination.



Passive Surveillance 2016 -2024

Year	fox	wolf	dog	cat	marten	jackal	wild cat	deer	bear	wild boar	wild rabbit	weasel	squirr el	otte r	cattl e	badger r	sheep	total
2016	1	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	5
2017	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2018	4	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7
2019	14	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	17
2020	3	1	4	1	0	0	0	0	0	0	0	2	0	0	0	0	0	11
2021	77	2	15	22	12	0	0	0	0	0	0	4	2	2	1	5	1	143
2022	7	1	0	1	1	0	0	0	0	0	0	6	0	0	1	0	0	17
2023	12	2	3	0	3	0	0	0	2	1	0	0	0	0	0	0	0	23
2024*	2	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	5

- Passive surveillance: tests performed in suspect and dead animals

* up to 31 May 2024



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Effectiveness of ORV campaigns (Post-vaccination monitoring)

Year	Bait uptake = biomarker			Seroconversion = antibodies to rabies virus				Detection of rabies virus (FAT)	
	No. of foxes tested	No. of biomarker positive samples		No. of foxes tested	Method used for serological testing ²	No. of foxes positive for antibodies to rabies virus		Only from monitoring programme-active surveillance ¹	
		Juvenile	Adult			Juvenile	Adult	Negative	Positive
2017/2018	82	17	50	20	ELISA	1	6	153	0
2018/2019	200	84	63	95	ELISA	18	16	303	0
2019/2020	106	40	51	25	ELISA	8	3	178	0
2020/2021	27	6	5	N/A	N/A	N/A	N/A	142	0
2022/2023	87	40	28	0	0	0	0	87	0
2023/2024*	52	5	23	29	ELISA	0	4	80	0

*Remark: Last ORV campaign May 12th - June 10th 2023.

N/A: no post-vaccination monitoring for that year

Plans for 2024

VACCINATION	YES	NO	STILL TO BE DECIDED	YES UNDER CONDITIONS <i>(please describe)</i>	Area	Period /dates	Comments
ORV Campaign 2024			X		Whole country		
Spring campaign (conducted)		X					
Autumn campaign			X		Whole country	October-November	
SURVEILLANCE							
Passive surveillance	X			Annual AH order	Whole country		
Active surveillance <i>(like the one accompanying all ORV)</i>	X			Annual AH order	Whole country		
Other type of active surveillance (please describe)	x			Annual AH order	Whole country		Detection of rabies virus in hunted wolves

Plans for 2025

VACCINATION	YES	NO	STILL TO BE DECIDED	YES UNDER CONDITIONS <i>(please describe)</i>	Area	Period /dates	Comments
ORV Campaign	X			Single Market Programme (SMP Food) EU co-funded rabies programme for 2025-2027	Whole country		
Spring campaign	X				Whole country	April - May	
Autumn campaign	X				Whole country	October- November	
SURVEILLANCE							
Passive surveillance	X			Single Market Programme (SMP Food) EU co-funded rabies programme for 2025-2027	Whole country		
Active surveillance <i>(like the one accompanying all ORV)</i>	X				Whole country		
Other type of active surveillance <i>(please describe)</i>	X				Whole country		Detection of rabies virus in hunted wolves

Additional activities/needs/plans

- **Single Market Programme (SMP Food)- EU co-funded rabies programme for 2025-2027,**
- **ADEWB project, phase I and II, regional approach strategy, recommendations,**
- **National Multiannual Rabies control and eradication program 2024-2027, implementation manual, under adoption**
- **Neighbouring countries informed before each ORV campaign,**
- **Provided incentives for hunters and general public (carcasses, reporting) by national budget,**
- **Public awareness campaign/passive surveillance 2023/2024**

Awareness Campaign - STOP RABIES 2023

Realization Summary for the Period: July 20 - December 31, 2023

Radio Stations	Commercial (seconds)	Daily broadcasting	Weekly broadcasting	Total broadcasting weekly (seconds)	Weeks of broadcasting	Total broadcasting from 20.07-31.12.2023 (seconds)
Radio Galaxy - Kavadarci	33	3	21	693	26	18018
Radio Kochani - Kochani	33	3	21	693	26	18018
Super Radio - Ohrid	33	3	21	693	26	18018
Time FM - Gevgelija	33	3	21	693	26	18018
Radio 5 - Prilep	33	3	21	693	26	18018
Radio G - Gostivar	33	3	21	693	26	18018
Radio Jehona - Kumanovo (albanian)	33	3	21	693	26	18018
Radio Bum - Kumanovo	33	3	21	693	26	18018
Radio Tim - Bitola	33	8	56	1848	26	48048
Kanal 77 - Skopje	33	1	7	231	26	6006
Total						198198

Total broadcasting on Macedonian language for 26 weeks (seconds)	180180
Total broadcasting on Albanian language for 26 weeks (seconds)	18018
Total broadcasting for 26 weeks (seconds)	198198

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Additional activities/needs/plans

Single Market Programme (SMP Food)- EU co-funded rabies programme for 2025-2027

Plans for Disease awareness and information campaigns

- Before each vaccination campaign, interested parties - informed about vaccination period, area and important information (including safety) related to ORV.
- the annual training for CA's staff (official veterinarian - inspectors) and PVPs during the period 2025-2027,
- interested parties - obligation for preventive R vaccination of pet animals (dog, cat and ferret).
- General public - informed through social media, radio-audio informative materials, posters and leaflets.
- Hunter society - hunter's federation meetings, social media.

**Thank you for your
attention**