



# 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

**Standing Group of Experts on Lumpy Skin Disease  
in South East Europe  
under the GF-TADs umbrella**

**SGE LSD 12**

**2 March 2023**

***[ Country Name ]***

**Country Update**

# Lumpy Skin Disease – Background information

- **LSD occurrence** : First occurrence in the country was in April 2016. In 2016, 1535 cattle farms were affected and 4327 bovine animals culled and safely disposed.
- **LSD last occurrence**: Last outbreaks reported in 2017.
- *[ list the years when LSD outbreaks were recorded e.g. 2021, 2022 etc. and numbers of outbreaks for each year] – if no outbreaks in the past put “Never”*
- **LSD Vaccination**: Compulsory vaccination of all cattle older than six months, using live attenuated vaccines was in place from 2016 until 2019.
- **Table 1. LSD Vaccination 2016-2019**

Year	Bovine animals vaccinated	Farms
2016	213.289	24.488
2017	207.649	22.261
2018	179.794	19.840
2019	152.632	17.247

- *[ list the years when LSD vaccination was implemented e.g. 2021, 2022 etc.] – if no vaccination was ever implemented put “Never”*



# Lumpy Skin Disease – Background information

- **LSD surveillance (active):** *[ list the years when LSD active surveillance (post vaccination) was implemented, e.g. 2021, 2022 etc.] – if no such surveillance was ever implemented put “Never”*
- *All bovine animals in the country were target population for active and passive surveillance.*
- *Active surveillance – includes clinical (animal health visits -AHV) and serological surveillance.*
- *Table 2. Data for the cattle population, number of cattle farms, planned and conducted AHV for the period 2020-2022.*

Year	Total number of cattle and cattle farms (1 <sup>st</sup> of January)		Planned AHVs	Animal Health Visits							
				1 <sup>st</sup> visit		2 <sup>nd</sup> visit		3 <sup>rd</sup> visit		4 <sup>th</sup> visit	
	Farms	Animals	Farms	Farms	Animals	Farms	Animals	Farms	Animals	Farms	Animals
2020	17196	151919	1287	1097	7799	964	7575	780	6420	756	6082
2021	16172	152814	1575	1407	43342	/	/	/	/	/	/
2022	14890	145299	1332	1453	32504	1286	30924	1204	28488	1150	30966



# Lumpy Skin Disease – Background information

For serological surveillance, the target population were cattle older than 6 months (animals without maternal immunity) as well and non-vaccinated animals born after 31.12.2019.

Results of the serological testing in randomly selected cattle.

## Serology – Screening (ID Screen® Capripox Double Antigen Multi-species)

Year	Total		Negative				Positive			
	Farms	Animals	Farms	%	Animals	%	Farms	%	Animals	%
<b>2020</b>	458	1436	419	91,5	1173	81,7	39	8,5	263*	18,3
<b>2021</b>	1407	2044	1338	95,1	1948	95,3	69	4,9	96	4,7
<b>2022</b>	1708	2445	1606	94,0	2320	94,9	102	6,0	125	5,1

Results of the follow up testing,

## Serology - Re-testing (ID Screen® Capripox Double Antigen Multi-species)

Year	Total		Negative				Positive			
	Farms	Animals	Farms	%	Animals	%	Farms	%	Animals	%
<b>2020</b>	39	55	37	94,9	53	96,4	2	5,1	2	3,6
<b>2021</b>	69	580	59	85,5	569	98,1	10	14,5	11	1,9
<b>2022</b>	102	1215	79	77,5	1133	93,3	23	22,5	90	7,4

Results of the confirmatory virological examination for detection of LSDV from the confirmed seropositive animals.

## Virology - Confirmatory testing (Real-Time PCR, Bowden et al. 2007)

Year	Total		
	Farms	Animals	Results
<b>2020</b>	2	2	Negative
<b>2021</b>	10	11	Negative
<b>2022</b>	23	90	Negative



# Lumpy Skin Disease – 2023 plans

- LSD Vaccination: *“Not Applicable”*
- LSD surveillance (active): *[give a short description of surveillancet ] - if no surveillance planned put “Not Applicable”*  
**Active surveillance: periodical clinical / serological of non-vaccinated animals and without maternal immunity/virological examination,**

**Active sero-surveillance will be carried out on 746 animals with ELISA 80% Diagnostic Test Sensitivity (Sn) which will detect at least one positive animal with 0,5% anticipated prevalence on country level (high and low risk area) and 95% level of confidence.**

**All seropositive animals, as well as all the animals on the farm fulfilling the criteria for testing, will be follow up testing (serum, whole blood, and nasal swab) using the ELISA and qPCR methods.**

***Animal Health Visits (AHVs) – It is planned to conduct on 1149 cattle farms in period of implementation: 15 April – 31 October 2023.***

***Active clinical surveillance is designed to provide 4 clinical visits with minimum time period of 5 weeks between each visit. The AHVs was designed as a cohort study and selected farms that were not visited (in each phase of the surveillance programme) or didn't have animals during the visits were excluded from the subsequent visits.***

***In this period a total of four clinical visits will be carried out as follows:***

- ***The first clinical visits will be carried out from 15.04.2023 to 30.04.2023;***
- ***The second clinical visits will be carried out from 15.06.2023 to 30.06.2023;***
- ***The third clinical visits will be carried out from 15.08.2023 to 31.08.2023 and***
- ***The fourth clinical visits will be carried out from 15.10.2023 to 31.10.2023***

