

GF-TADs

GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



Food and Agriculture
Organization of the
United Nations



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

SGE LSD 11
10 February 2022

[Russia]

Lumpy Skin Disease – Background information

- **LSD occurrence :**

LGD was first registered in the Russian Federation in July 2015 – 17 outbreaks;
2016 - 313 outbreaks;
2017 - 43 outbreaks;
2018 - 64 outbreaks;
2019 - 29 outbreaks;
2020 - 4 outbreaks;
2021 - 42 outbreaks.



Lumpy Skin Disease – Background information

- **LSD Vaccination:**

Vaccination in Russia against LSD began in 2015.

2015 – 169,751*;

2016 – 3715,927*;

2017 – 8444,226*;

2018 – 11590,500*;

2019 – 11135,159*;

2020 – 10328,082*;

2021 (9 m.) - 7580,150 *.

*

thousand headworks were carried out.



Lumpy Skin Disease – Background information

- **LSD surveillance (active):**

- ***Diagnostic tests LSD in the Russian Federation 2019 - 9m. 2021***

2019 – 407220 – pos/187

2020 – 508367 – pos/52

2021 – 432765 – pos/64



Lumpy Skin Disease – 2021 - Occurrence

Lumpy skin disease outbreaks in the RF in 2021



As of 31.12.2021

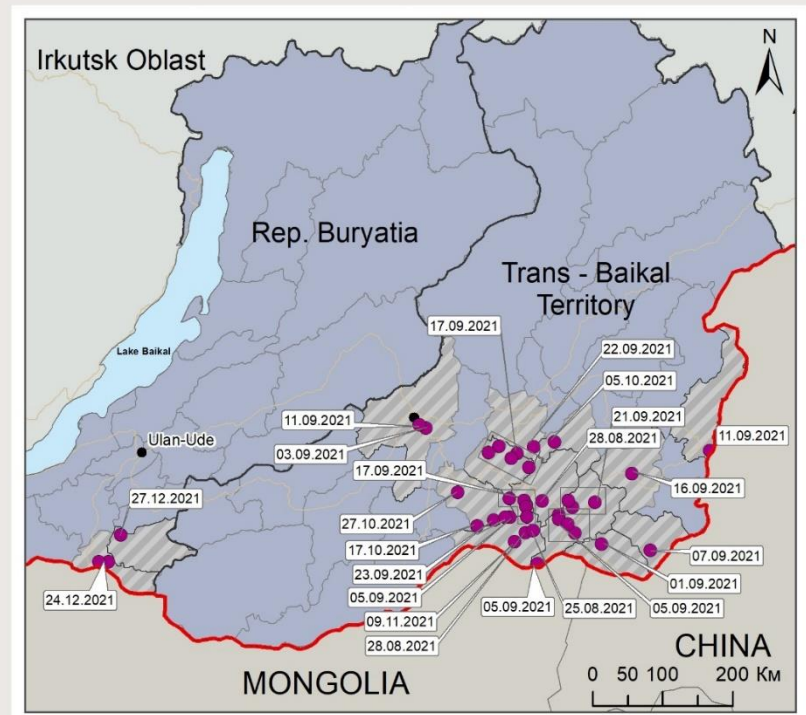


number of affected settlements:

1. Trans - Baikal Territory - 34
2. Rep. Bashkortostan - 4
3. Rep. Buryatia - 3
4. Chelyabinsk Oblast - 1

Legend:

- affected raions
- Main road
- Main city
- Border RF
- LSD outbreaks in 2021



Lumpy Skin Disease – 2021 - Occurrence

Domestic control measures

Applied

- Control of vectors
- Movement control inside the country
- Quarantine
- Screening
- Surveillance within containment and or the protection zone
- Disinfection



Lumpy Skin Disease – 2021 - Vaccination

- **Number of bovine animals – 18026300**
- **Number of bovine animals vaccinated - 7580,150 (9 m. – 2021. thousand headworks were carried out)**
- **Type of vaccine used (homologous/ heterologous...) -**

For vaccination of cattle, a heterologous vaccines against LSD is used:

1. FGBI ARRIAH

SheepPox-LSD vac Culture dry viral vaccine against sheep pox and lumpy skin disease

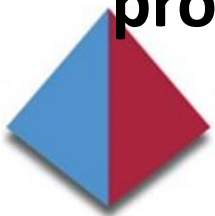
2. FFE “Armavir Biofactory”

Live culture dry viral vaccine against sheep pox

3. FGBRI FRCVM

Freeze-dried cell culture viral vaccine against sheep pox and Lumpy Skin Disease

- **Vaccination coverage – n.d.**
- **Type of animals vaccinated - all ages and types of productivity**



Lumpy Skin Disease – 2021 - Vaccination

Area where vaccination is carried out (whole territory or specific areas)

For 9 months of 2021, vaccination in Russia was carried out in the following regions/ territories/ republics: Voronezh, Kursk, Ryazan, Tambov, Adygea, Krasnodar, Astrakhan, Volgograd, Rostov, Dagestan, Ingushetia, Kabardino-Balkarian, Karachay-Cherkess, North Ossetia, Chechen, Stavropol, Samara, Saratov, Ulyanovsk, Kurgan, Tyumen, Chelyabinsk, Bashkortostan, Tatarstan, Udmurt, Orenburg, Altai, Novosibirsk, Omsk, Khanty-Mansiysk A.O., Zabaikalsky, Primorsky, Khabarovski, Amur, Jewish A.O.



Lumpy Skin Disease – 2021 - Surveillance

- ***Description of the active surveillance undertaken***

Include at least :

- ✓ **number of animals tested – (9m. 2021) – 432765;**
- ✓ **types of animals tested – cattle;**
- ✓ **types of tests – PCR, ELISA**
- ✓ **test results - 64 pos.**
- ✓ **surveillance period - 9 months of 2021**
- ✓ **regions covered - For 9 months of 2021, diagnostic studies were conducted in 26 subjects of the Russian Federation, 64 positive in the Trans-Baikal Territory.**

Description of the passive surveillance undertaken



Lumpy Skin Disease – 2022 plans

- **LSD Vaccination:** According to the Ministry of Agriculture of the Russian Federation, in 2022, vaccination with heterologous vaccine is planned in 28 subjects of the Russian Federation (region, krai, republic): Altai*, Astrakhan*, Volgogradskaya*, Kabardin-Balkarian, Karachay-Cherkess, Kurgan*, Novosibirsk*, Omsk*, Orenburg*, Adygea, Bashkortostan, Dagestan, Ingushetia, North Ossetia -Alania, Tatarstan*, Rostov, Samara*, Saratov*, Stavropol, Tyumen*, Chelyabinsk*, Chechen, Amur*, Jewish Autonomous*, Primorsky*, Khabarovsk*, Zabaikalsky (* - in accordance with the zoning of the Russian Federation).
- **LSD surveillance (active):** As part of the Federal Monitoring of LCD in the country, 8079 studies (PCR and ELISA) are planned to be conducted in 2022 .
- **Other LSD measures :** *regionalization (zoning) and control of movement of live animals between zones*

Genetic analysis

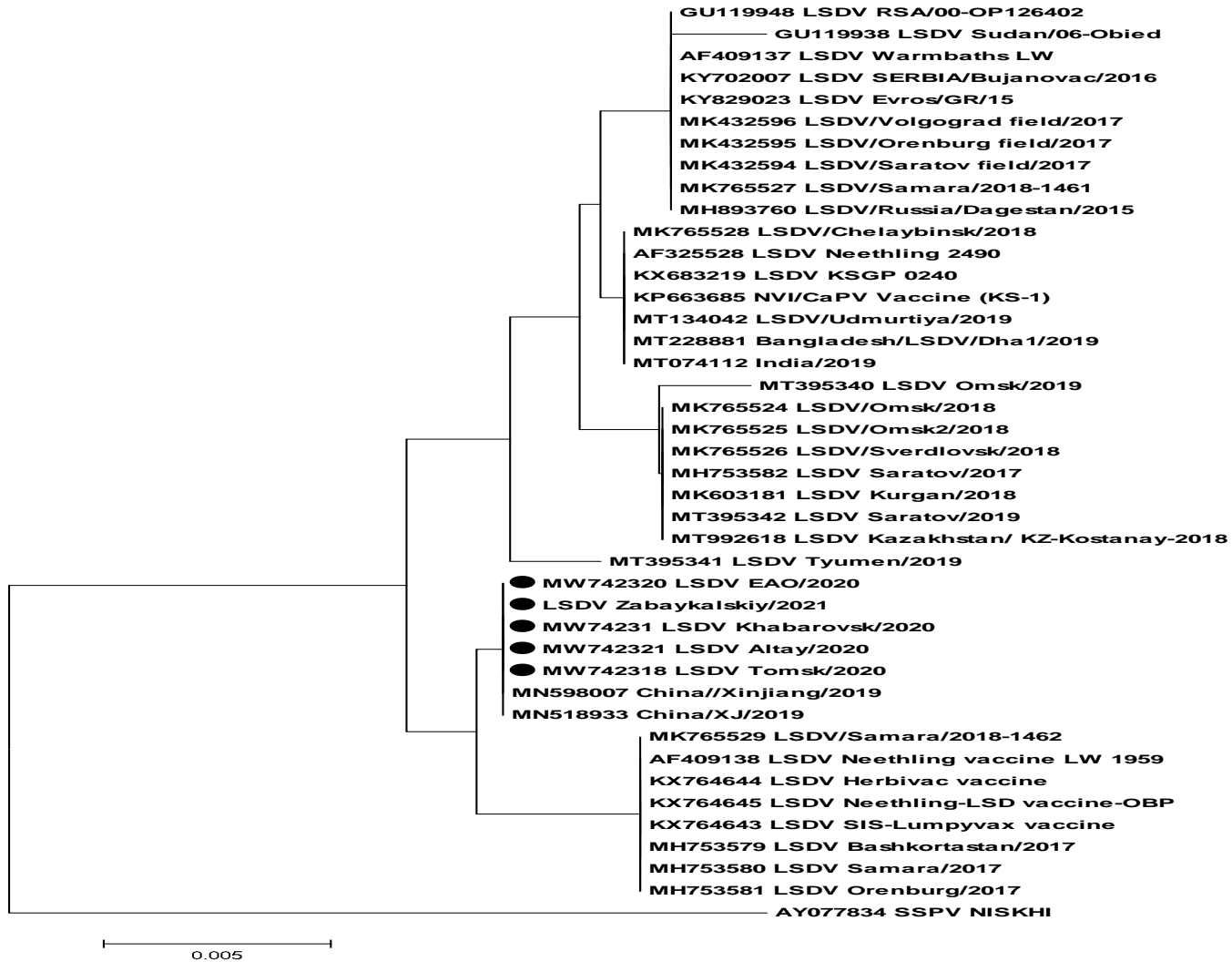


Figure A RPO30 gene based phylogenetic tree showing grouping of Russian LSDV isolates obtained during 2020-2021