Self-declaration of country freedom from Rabies virus by Bulgaria

Declaration sent to the World Organisation for Animal Health (WOAH) on 21 December 2021 by Prof. Hristo Daskalov, Delegate of Bulgaria to WOAH and Chief Veterinary Officer, Bulgarian Food Safety Agency, Ministry of Agriculture, Food and Forestry.

Introduction

The aim of this dossier is to provide evidence that Bulgaria fulfils the requirements of Article 8.14.2. of the Terrestrial Animal Health Code (Terrestrial Code). The self-declaration covers the whole territory of Bulgaria. The starting date of the self-declared freedom from rabies virus is 15 April 2022.

2. Epidemiological evolution of the disease in the past 15 years

For the period 2006 – 2015 in total 167 rabies cases were registered on the territory of Bulgaria of which 44 in domestic animals and 123 in wild animals. As a result of the surveillance activities and the cases registered in the country in the previous decade, the virus was considered to be present in the northern part of the county (95% of the cases registered for the period 1992-2012 in the northern part of the country and 5% in the southern regions) until 2007, when the first cases of rabies in South Bulgaria had been registered ever since 1997.

By 20 August 2007, five rabies cases were found in the region of Sofia town and 11 cases in the region of Sofia-district. Since 2007, the disease spread south of the Balkan Mountains – to the regions of Sofia town, Sofia district, Pernik, Kyustendil, Burgas – in 2009 and Blagoevgrad – in 2014. For the period 2010-2014, 10 rabies cases were confirmed positive, found in Vratza, Veliko Tarnovo, Shumen, Ruse, Blagoevgrad and Kyustendil regions – with no confirmed cases in 2013 and two positives in the spring of 2014. The last case confirmed in Bulgaria was registered on 4 June 2014 in Blagoevgrad region, in foxes.

The number of the confirmed rabies cases per species in the last 10 years is shown in table 1 below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Total cases</th>
<th>Domestic Animals /livestock</th>
<th>Dogs</th>
<th>Cats</th>
<th>Foxes</th>
<th>Jackals</th>
<th>Other species</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>9</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>2007</td>
<td>40</td>
<td>-</td>
<td>7</td>
<td>7</td>
<td>24</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>2008</td>
<td>49</td>
<td>-</td>
<td>6</td>
<td>4</td>
<td>33</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>2009</td>
<td>59</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>47</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>2010</td>
<td>6</td>
<td>-</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2011</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2012</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2013</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 1: Rabies cases registered on the territory of Bulgaria for the period 2006-2020

<table>
<thead>
<tr>
<th>Year</th>
<th>Cases</th>
<th>Deaths</th>
<th>PCD</th>
<th>BCD</th>
<th>%CD</th>
<th>%BD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2015</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2016</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2017</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2018</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2019</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2020</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2021</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>167</td>
<td>5</td>
<td>20</td>
<td>19</td>
<td>112</td>
<td>10</td>
</tr>
</tbody>
</table>

3. Information on the notification, monitoring in accordance with Article 4 of Directive 2003/99/EC, elements of the rabies eradication programme implemented on the territory of the country and other activities

**Notification of the disease**

The infection with rabies virus is notifiable in accordance with the provisions set out in the national legislation - Art. 50 of the Law on Veterinary Activity and Ordinance No 23/14.12.2005 for the rules for notification and registration of contagious diseases in animals. The Veterinary Practice Act is available [here](https://www.bfsa.bg/userfiles/files/ZJ/diseases/rabies/SOP_sampling%20rabies.pdf).

**Elements of the national programme**

A systematic programme for eradication and surveillance of the disease has been implemented in Bulgaria since 2009.

The programme has been carried out within the country without cessation until the present times with the following elements:

- passive surveillance on targeted wild and domestic animals (suspects, road-kills, found dead);
- oral vaccination of foxes in certain areas of the country;\(^1\);
- monitoring of the effectiveness of the oral vaccination;
- surveillance of healthy animals shot during regular hunting activities within the territory of the country.

**Targeted populations for rabies identification**

- rabies suspected animals of wild and domestic species (animals with clinical signs, animals with non-typical behavior);
- wild animals killed in road accidents;
- healthy shot foxes and jackals in regular hunting activities in the territory of the entire country.

**Sampling schemes, laboratory diagnostic methods and reporting, measures upon rabies confirmation:**

The particular sampling schemes are described in the national programme publicly available on the following link, together with the laboratory diagnostic methods used and measures in case of rabies confirmation:


(2022-2024) [https://www.bfsa.bg/bg/Page/NPBJZ22-21/index/NPBJZ22-21/%D0%9D%D0%80%D1%86%D0%B8%D0%BE%D0%BD%D0%80%D0%BB%D0%BD%D0%B0](https://www.bfsa.bg/bg/Page/NPBJZ22-21/index/NPBJZ22-21/%D0%9D%D0%80%D1%86%D0%B8%D0%BE%D0%BD%D0%80%D0%BB%D0%BD%D0%B0)

A standard operational procedure for the sampling (by official veterinarians) and reporting surveillance and vaccination effectiveness monitoring activities is available here: [https://www.bfsa.bg/userfiles/files/ZJ/diseases/rabies/SOP_sampling%20rabies.pdf](https://www.bfsa.bg/userfiles/files/ZJ/diseases/rabies/SOP_sampling%20rabies.pdf)

\(^1\) Vaccination was interrupted in 2021, currently arrangements are made for continuation of the campaigns in the zones following under the programme.
**Surveillance scheme**

Samples for passive surveillance (suspect domestic and wild animals, road kills, animals found dead, domestic animals tested for TSEs, showing neurological clinical symptoms are targeted for the purposes of the passive surveillance) from the entire territory of the country will be tested by indirect fluorescent antibody test (IFT).

In addition, samples from shot wild carnivores (foxes/jackals/wolves) both from vaccination (animals originally delivered for monitoring of the vaccination purposes) and non-vaccination zones (when delivered by the hunters) will be tested as well as a complementary surveillance.

**Monitoring of the vaccination effectiveness**

Samples from healthy shot foxes from the vaccination zones will be tested in order to evaluate the effectiveness of the vaccination activities. Four animals will be tested per 100 sq.km. Although the indicator species are foxes, due to the growing jackal population in the past years, the data on the bait-uptake in that species and the fact that seroconversion is also found in them (although limited), samples from jackals will also be tested for the purposes of that element of the programme.

The following laboratory tests are performed:

- **IFT** - on brain samples collected both from active and passive surveillance activities
- **ELISA** - on blood samples collected from hunted/dead animals from vaccinated areas for seroconversion determination
- **TMT** (detection of the presence of a tetracycline biomarker) - on teeth/bone samples collected from hunted/dead animals from vaccinated areas for bait-uptake determination
- **PCR** - on brain samples for disease confirmation/on suspect animals in contact with humans

**Other measures**

- An obligation for owner for vaccination of dogs is laid down in Art. 173 of the Law on the Veterinary Activities, the results of the vaccination are recorded in the VetIS system of the BFSA.
- Public awareness activities (for general public, pet owners, registered veterinarians) and specific awareness and trainings targeting particularly the hunters have been carried out (publications in hunting magazines, videos, training sessions provided during meetings and seminars of the hunting associations and organizations):
  - [https://www.bfsa.bg/bg/Page/Rabies/index/Rabies/%d0%91%d1%8f%d1%81](https://www.bfsa.bg/bg/Page/Rabies/index/Rabies/%d0%91%d1%8f%d1%81)
  - [https://www.slrb.bg/?s=%D0%81%D1%8F%D1%81](https://www.slrb.bg/?s=%D0%81%D1%8F%D1%81)

**Activities foreseen for strengthening the surveillance**

- A mobile application was launched in 2021 for hunters/official veterinarians and other persons for submission of information of an animal sample from which are to be sent samples for rabies and is currently an option for use by official veterinarians (OV) and hunters. The application aims to provide faster communication channel on samples data submission and laboratory result receipt. In addition, the software will improve the data on geographical distribution of the samples collected.

4. **Surveillance and monitoring of the vaccination programme in the past six years (2016-2021)**

**Surveillance in vaccinated zones and monitoring of vaccination effectiveness**

For the period 2016-2020, in total 7,501 fluorescent antibody test (FAT) were carried out on animals shot in the vaccinated zones with no positive results found.

The data on the rabies surveillance per regions, together with the figures on the monitoring of the vaccination effectiveness are shown on the table 2 below.
### Table 2: Rabies surveillance and vaccination effectiveness monitoring in foxes and jackals

<table>
<thead>
<tr>
<th>Year</th>
<th>Type of test</th>
<th>Number of tests</th>
<th>Seropositive %</th>
<th>Type of test</th>
<th>Number of tests</th>
<th>Biomarker presence %</th>
<th>Type of test</th>
<th>Number of tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>ELISA</td>
<td>761</td>
<td>45.59</td>
<td>TMT</td>
<td>1131</td>
<td>74.36</td>
<td>FAT</td>
<td>1133</td>
</tr>
<tr>
<td>2017</td>
<td>ELISA</td>
<td>317</td>
<td>49.69</td>
<td>TMT</td>
<td>1786</td>
<td>60.86</td>
<td>FAT</td>
<td>1783</td>
</tr>
<tr>
<td>2018</td>
<td>ELISA</td>
<td>790</td>
<td>28.8</td>
<td>TMT</td>
<td>1968</td>
<td>49.44</td>
<td>FAT</td>
<td>1968</td>
</tr>
<tr>
<td>2019</td>
<td>ELISA</td>
<td>521</td>
<td>14.01</td>
<td>TMT</td>
<td>1113</td>
<td>58.3</td>
<td>FAT</td>
<td>1105</td>
</tr>
<tr>
<td>2020</td>
<td>ELISA</td>
<td>547</td>
<td>23.4</td>
<td>TMT</td>
<td>1081</td>
<td>63.36</td>
<td>FAT</td>
<td>1061</td>
</tr>
<tr>
<td>2021</td>
<td>ELISA</td>
<td>711</td>
<td>17.8</td>
<td>TMT</td>
<td>1084</td>
<td>41.69</td>
<td>FAT</td>
<td>993</td>
</tr>
</tbody>
</table>

*No oral vaccination campaign was performed in 2021 in BG.

Details of monitoring of the vaccination effectiveness for 2016 to 2020 can be found as Annex II.

### Passive surveillance in the territory of the entire country and surveillance in hunted animals outside the vaccination zones

In total 5,406 samples were tested from hunted animals in the non-vaccinated areas of the country in the past six years with no results positive for rabies. The passive surveillance results were obtained from 903 animals, both domestic and wild (suspects/road kills/found dead) with no positives for rabies found.

The detailed results per type of surveillance/regions and species for 2021 is below as table 3 and for 2016 to 2020, it can be found as Annex III.

### Table 3: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2021

<table>
<thead>
<tr>
<th>Region</th>
<th>Suspects</th>
<th>Road-kills</th>
<th>Found dead</th>
<th>Shot in non-vaccinated zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blagoevgrad</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Bourgas</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Varna</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>V.Tarnovo</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Vidin</td>
<td>6</td>
<td>8</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Vratsa</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Gabrovo</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Dobrich</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kardjali</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kyustendil</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Lovech</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Montana</td>
<td>3</td>
<td>15</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pazandzhiq</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Petrik</td>
<td>1</td>
<td>20</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Pleven</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Plovdiv</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Razgrad</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>350</td>
</tr>
<tr>
<td>Rousse</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>526</td>
</tr>
<tr>
<td>Silistra</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Siliven</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Smolyan</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sofia- city</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sofia- district</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Stara Zagora</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Targovishte</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Raskovo</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Shoumen</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Yambol</td>
<td>5</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>8</td>
<td>0</td>
<td>536</td>
</tr>
</tbody>
</table>

5. Information on the oral vaccination programme of foxes since 2009, representative geospatial analysis of the vaccine effectiveness in the country for the period

### Oral vaccination for the period 2009-2014

The rabies oral vaccination programme in Bulgaria is operational since 2009. Initially 18 regions in the northern part of the country were included in the vaccination programme. For the period 2010-2014 the vaccinated areas were...
revised 3 times – including territories of southern regions – Burgas (since 2010), Blagoevgrad (since 2012) and Pazardzhik and Smolyan (since 2014 – Figure 1). Two vaccination campaigns (spring and autumn) per year were carried out in 2009, 2012 and 2013 as administrative and financial holdbacks resulted in only one (spring) campaign per year in 2010 and 2011.

The vaccine was Lysvulpen, produced by Bioveta, Czech Republic, with target distribution density of 20 baits/sq km. The details on the vaccinated areas for the period 2009-2014 are described in Table 4.

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<table>
<thead>
<tr>
<th>Year</th>
<th>Campaigns</th>
<th>Districts</th>
<th>Territory covered (km$^2$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>2 spring &amp; autumn</td>
<td>18</td>
<td>55 037 km$^2$</td>
</tr>
<tr>
<td>2010</td>
<td>1 spring</td>
<td>19</td>
<td>55 995 km$^2$</td>
</tr>
<tr>
<td>2011</td>
<td>1 spring</td>
<td>19</td>
<td>55 995 km$^2$</td>
</tr>
<tr>
<td>2012</td>
<td>2 spring &amp; autumn</td>
<td>20</td>
<td>59 500 km$^2$</td>
</tr>
<tr>
<td>2013</td>
<td>2 spring &amp; autumn</td>
<td>20</td>
<td>59 500 km$^2$</td>
</tr>
<tr>
<td>2014</td>
<td>2 spring &amp; autumn</td>
<td>22</td>
<td>79 119 km$^2$</td>
</tr>
</tbody>
</table>

Table 4: Vaccination campaigns and size of covered territories for the period 2009-2014

**Oral vaccination of foxes in 2015 – 2020**

In 2015, the vaccination area was decreased to 20 km buffer-zone along Danube River in the northern bordering regions of the country and western and southwestern regions of the country (Figure 2), covering approx. 55 000 km$^2$ of the territory of the country (in 16 administrative districts). The vaccine density was 20 baits per sq.km.
In 2018, the oral vaccination in foxes was again revised in order to cover entirely the bordering areas of the country. The vaccination was performed in the 50-km belt areas along the land borders of the country and in the 20-km belt areas along the Danube river with vaccine density 25 baits per sq. km. In total territories of 22 administrative regions of the country are under the oral vaccination programme (covering approx. 57 000 km² of the territory of the country). The same territory coverage is carried out in present times also.

Figure 2. Vaccination areas in 2015-2017

Figure 3. Vaccination areas in 2018-2020
In addition to that, since the beginning of the vaccination programme manual distribution of vaccine baits has been carried out in non-flight areas such as Sofia-city suburbs, Kozloduy Power Plant as follows:

<table>
<thead>
<tr>
<th>Manual distribution</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No of regions</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Campaign</strong></td>
<td>Spring, Autumn</td>
</tr>
<tr>
<td><strong>No. of baits</strong></td>
<td>12 000, 12 000</td>
</tr>
<tr>
<td><strong>Size of territory (km²)</strong></td>
<td>4 300, 4 300</td>
</tr>
<tr>
<td><strong>Type of distribution</strong></td>
<td>manual, manual</td>
</tr>
<tr>
<td><strong>Bait density (per km²)</strong></td>
<td>2.79, 2.79</td>
</tr>
</tbody>
</table>

Table 5: Manual distribution of vaccine baits in the country.

6. Measures in place aiming to maintain freedom

A national rabies programme is adopted by the Council of Ministers in the framework of the National multiannual programme for animal diseases and zoonoses for the period 2022-2024. The programme includes the following elements:

- continuation of oral rabies vaccination in specific bordering zones of the country,
- passive surveillance activities on the entire territory of the country (with particular targets for each region),
- active surveillance on animals shot under regular hunting activities,
- vaccination monitoring.

The detailed programme and the cooperation with other Competent Authorities and stakeholders are described and available [here](#).

Obligation for vaccination of dogs (pet, stray, hunting and in shelters) is part of the legislation of the country and is annually implemented and reported.

In addition, the requirements set out in the EU legislation in relation to the importation of animals are applied, particularly Commission Delegated Regulation (EU) 2020/688 and Regulation (EU) No 576/2013.

Information on the disease is provided on the BFSA webpage and it is available here on the following link: [https://www.bfsa.bg/bg/Page/Rabies/index/Rabies%D0%91%D0%8F%D1%81](https://www.bfsa.bg/bg/Page/Rabies/index/Rabies%D0%91%D0%8F%D1%81).

Awareness on the disease is regularly spread in cooperation and in joined events (workshops, trainings) of the BFSA and the Hunting’s association in the country.

7. Conclusion:

Considering that:

1. Bulgaria is a country free from infection with rabies virus since June 2014;
2. Rabies is a compulsory notifiable disease. In addition, any change in the epidemiological situation or relevant events are reported in accordance with Chapter 1.1. of the Terrestrial Code;
3. All susceptible animals showing clinical signs suggestive of rabies are subjected to appropriate field and laboratory investigations;
4. There have been no cases of indigenous acquired infection in the past 24 months;
5. An effective surveillance system has been in place and is in accordance with the relevant Chapter 1.4. and Article 8.14.12. of the Terrestrial Code;
6. An oral vaccination programme in the bordering zones with effective vaccine monitoring protocols was in place until 2021. Arrangements on the continuation of the vaccination programme are being made for certain bordering areas in the country.

The Delegate of Bulgaria to WOAH declares that the country complies with the requirements for a country free from rabies as of 15 April 2022, in compliance with the provisions of Chapter 1.6. and Article 8.14.2. of the Terrestrial Code (2021 edition) and consistent with the information provided in WAHIS.
Statement to be included in the self-declaration document.

I, the undersigned, Prof Dr Hristo Daskalov, the Delegate of Bulgaria, takes responsibility for the self-declaration of freedom from Rabies.

DISCLAIMER

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(iii) Any direct or indirect consequences of any nature arising from or relating to the use of the information contained in a self-declaration.

Drawn up on 4.08.2012

Signature of the Delegate: _______________________________
## Annex II

Detailed data on the vaccination monitoring and surveillance in vaccination zones (2016-2020)

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Table 6: Rabies surveillance and vaccination effectiveness monitoring in foxes in 2016
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| Total | | | 93 | 8 | 8,60 | 296 | 234 | 79,05 | 296 | 0 |

Table 7: Rabies surveillance and vaccination effectiveness monitoring in jackals in 2016

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**Table 8:** Rabies surveillance and vaccination effectiveness monitoring in foxes in 2017

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**Table 9:** Rabies surveillance and vaccination effectiveness monitoring in jackals in 2017
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*Table 10: Rabies surveillance and vaccination effectiveness monitoring in foxes in 2018*
Table 11: Rabies surveillance and vaccination effectiveness monitoring in jackals in 2018

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Table 11: Rabies surveillance and vaccination effectiveness monitoring in jackals in 2018.
Table 12: Rabies surveillance and vaccination effectiveness monitoring in foxes in 2019

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Table 13: Rabies surveillance and vaccination effectiveness monitoring in jackals in 2019

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**Table 14:** Rabies surveillance in fox in 2020

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**Table 15:** Rabies surveillance in jackals in 2020
Annex III

Detailed results per type of surveillance/regions and species (2016 to 2020)

### Table 16: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2016

<table>
<thead>
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<th>Region</th>
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### Table 17: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2017

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Table 18: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2018

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Table 19: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2019

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<th>Dog</th>
<th>Cat</th>
<th>Fox</th>
<th>Jackal</th>
<th>Roe deer</th>
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Table 20: Passive surveillance in entire country and active surveillance in non-vaccinated zones in 2020

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