

Follow-up report 1

19/12/2020

The event is ongoing. Weekly follow-up reports will be submitted.

Country/territory Report ID Sender Delegate of Greece Greece FUR_37183 Report reference Self-declaration **Event status**

COVID-19 MINK On-going No

General information

Country or zone - Country Disease - SARS-CoV-2 in animals (Inf. Started on - 04/12/2020

with)

Animal type - Terrestrial Confirmed on - 08/12/2020 Causal agent - SARS-CoV-2 Disease category - Emerging Reported on - 19/12/2020 Reason - Emerging disease

Disease impact

Outbreak morbidity - 2.0 Outbreak mortality - 1.0

Zoonotic potential - Yes Zoonotic potential description - To date, the Y453F mutation in

the spike (S) protein of the virus, referred to as mink-relatedvariant, has been detected in 5 sequenced SARS-CoV-2 genomes from human cases directly related to mink (farm workers/owners). Presence of the Y453F mutation has been also confirmed in virus genomes from one farm so far. None of the other mutations described on the Rapid Risk Assessment of the 12th November 2020 from EU agencies (ECDC, EFSA, EMA) has been found up to now neither in humans nor animals. Sequencing of virus genomes from human and mink samples is ongoing

Epidemiology

Source of the event or origin of the infection

- Unknown or inconclusive
- Farm staff from all infected farms tested positive for COVID-19

Epidemiological commentsIn total, 17 out of 91 mink farms have been tested positive for SARS-CoV-2 since the first outbreak was confirmed on 13/11/2020. Stamping out and official disposal of carcasses were only applied to the first confirmed farm. At that point, it was decided to stop culling animals. The whole country is practically considered a single zone. Movement restrictions (complete standstill for live animals) and strict biosecurity measures, including the mandatory use of personal protective equipment (PPE), have been imposed not only to the infected mink farms, but also to all fur farms in Greece. Reporting of increased mink morbidity and mortality to the veterinary authorities is obligatory at national level. When human vaccines become available, everyone who comes in close contact with mink (farm workers, owners, veterinarians) shall be included in the highest priority group to receive vaccination. In the framework of the one-health approach, veterinary and health authorities have been closely collaborating both at local and central level. Active repeated weekly surveillance (rapid tests and RT-PCR) is conducted by health authorities in all mink farm workers/owners. Results are notified directly to veterinary authorities which investigate every farm that is epidemiologically linked to a confirmed human case. In addition, veterinary authorities investigate every notification for increased animal morbidity and mortality. Oropharyngeal swabs are collected from the animals and tested with RT-PCR. Sequencing of virus genomes from human and mink samples is conducted.

Control measures at event level

Domestic control measures

Applied

- Movement control inside the country

- Zoning
- Surveillance within containment and or the protection zone
- Surveillance outside containment and or the protection zone
- Traceability
- Quarantine

Wild control measures

Applied

- Movement control inside the country
- Traceability
- Surveillance outside containment and or the protection zone
- Quarantine
- Zoning
- Surveillance within containment and or the protection zone

Diagnostic

Clinical signs - No

Method of diagnostic - Diagnostic test

Test name	Category	Test type	Laboratory	Species sampled	Outbreaks	Tested from	Tested until	Result
Real-time	Nucleic acid	Laboratory	Centre for	Mustelidae		08/12/2020		Positive
polymerase	detection	Test	Research					
chain			and					
reaction			Technology					
(real-time			Hellas					
PCR)			(CERTH)					

Quantitative data summary

Measuring unit - Animal

Species	Туре	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
Mustelidae	New	6300	3320	400	0	0	-	-	-
Mustelidae	Total	20100	4283	603	0	0	-	21.31	3.0
All species	New	6300	3320	400	0	0	-	-	-
All species	Total	20100	4283	603	0	0	-	21.31	3.0

Event morbidity - 2.0

Event mortality - 1.0

Outbreaks

1000141549-Regional Unit of Kozani

Outbreak reference - KOZANI_9 Started on - 11/12/2020 First administrative division - Epirus and

Western Macedonia

Second administrative division - West Epide

Macedonia

Epidemiological unit - Farm

Geographic coordinates - 40.2862624,21.4396819

Third administrative division - Voio Location - Regional Unit of Kozani

Description of the affected populationThe animals are bred in a commercial farm for their fur. Suspicion was raised in the framework of surveillance activities following notification about increased mink mortality. Samples (oropharyngeal swabs) were collected from ten dead animals and tested positive with RT- PCR. Infected mink showed respiratory symptoms and reduced feed intake.

Species	Туре	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	3300	3300	400	0	0	-

Mustelidae	Total	Animal	3300	3300	400	0	0	-
All species	New	Animal	3300	3300	400	0	0	-
All species	Total	Animal	3300	3300	400	0	0	-

1000141042-Regional Unit of Grevena

Outbreak reference - GREVENA_3 Started on - 04/12/2020 First administrative division - Epirus and

Western Macedonia

Second administrative division - West

Macedonia

Epidemiological unit - Farm

Geographic coordinates - 40.226447,21.440184

Third administrative division - Grevena Location - Regional Unit of Grevena

Description of the affected populationThe animals are bred in a commercial farm for their fur. Suspicion was raised in the framework of surveillance activities following notification about a confirmed human case (farm worker) for COVID-19. Samples (oropharyngeal swabs) were collected from twenty animals and were tested positive with RT- PCR. Mink showed no clinical symptoms and feed intake was not reduced. Mortality did not increase. It was negligible and within the expected range based on the farm records, thus is considered unrelated to the outbreak.

Species	Туре	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	-	-	-	-	-	-
Mustelidae	Total	Animal	4000	20	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	4000	20	0	0	0	-

1000141001-Regional Unit of Kozani

Outbreak reference - KOZANI_7 Started on - 04/12/2020 First administrative division - Epirus and

Western Macedonia

Second administrative division - West

Macedonia

Epidemiological unit - Farm

Geographic coordinates -

40.2408,21.3978

Third administrative division - Voio Location - Regional Unit of Kozani

Description of the affected populationThe animals are bred in a commercial farm for their fur. Suspicion was raised in the framework of surveillance activities following notification about a) increased mortality and b) a confirmed human case (farm owner) for COVID-19. Samples (oropharyngeal swabs) were collected from ten dead animals and all of them were tested positive with RT-PCR. Mink that died were relatively old and fat and showed mild respiratory symptoms and reduced feed intake. It is assumed that more animals were infected but their number cannot be calculated because of missing information.

Species	Туре	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	-	-	-	-	-	-
Mustelidae	Total	Animal	2300	43	43	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2300	43	43	0	0	-

1000141542-Regional Unit of Grevena

Outbreak reference - GREVENA_4 Started on - 13/12/2020 First administrative division - Epirus and

Western Macedonia

Second administrative division - West

Macedonia

Epidemiological unit - Farm

Geographic coordinates -

40.1871123,21.460993

Third administrative division - Grevena Location - Regional Unit of Grevena

Description of the affected populationThe animals are bred in a commercial farm for their fur. Suspicion was raised in the

framework of surveillance activities following notification about a confirmed human case (farm worker) for COVID-19.Samples (oropharyngeal swabs) were collected from twenty animals and were tested positive with RT- PCR. Mink showed no clinical symptoms and feed intake was not reduced. No mortality was observed.

Species	Туре	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	3000	20	0	0	0	-
Mustelidae	Total	Animal	3000	20	0	0	0	-
All species	New	Animal	3000	20	0	0	0	-
All species	Total	Animal	3000	20	0	0	0	-

1000141038-Regional Unit of Kozani

Outbreak reference - KOZANI_8 Started on - 04/12/2020 First administrative division - Epirus and

Western Macedonia

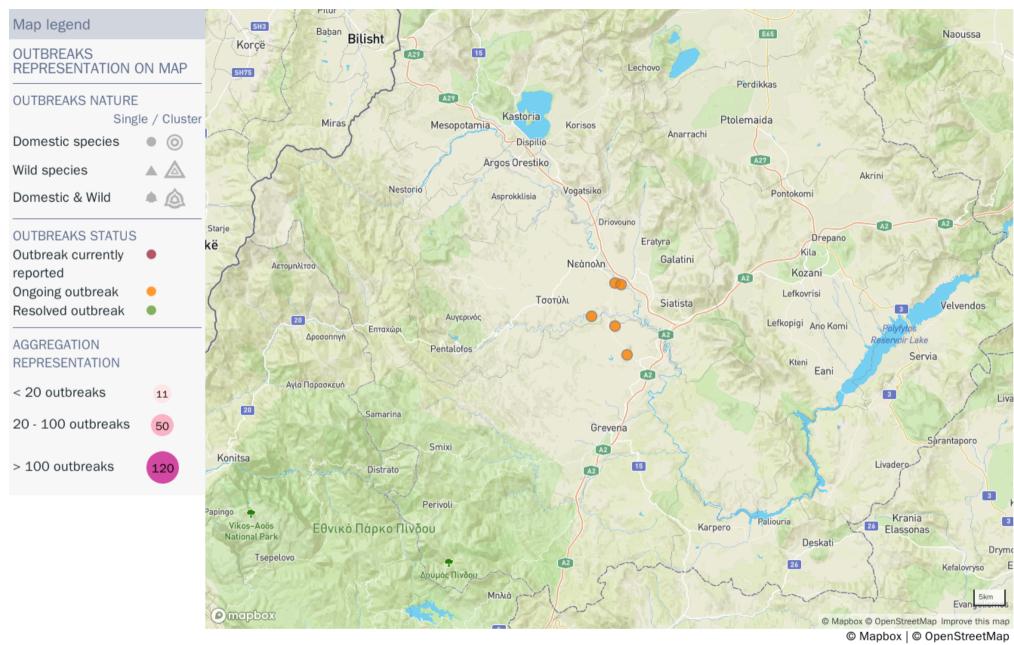
Second administrative division - West Epidemiological unit - Farm Geographic coordinates -

Macedonia 40.28438,21.45

Third administrative division - Voio Location - Regional Unit of Kozani

Description of the affected populationThe animals are bred in a commercial farm for their fur. Suspicion was raised in the framework of surveillance activities following notification about a) increased mortality and b) four confirmed human cases (farm owner and workers) for COVID-19. Samples (oropharyngeal swabs) were collected from ten dead animals and all of them were tested positive with RT- PCR. Infected mink showed respiratory symptoms and reduced feed intake.

Species	Туре	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Mustelidae	New	Animal	-	-	-	-	-	-
Mustelidae	Total	Animal	7500	900	160	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	7500	900	160	0	0	-



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