



Information received on 15/12/2020 from Mrs Chrysoula Dile, Head, Animal Health Directorate, Ministry of Rural Development and Food, ATHENS, Greece

#### Summary

Report type	Immediate notification
Date of start of the event	04/12/2020
Date of confirmation of the event	08/12/2020
Report date	15/12/2020
Date submitted to OIE	15/12/2020
Reason for notification	Emerging disease
Morbidity	2 (scale 0 to 5)
Mortality	1 (scale 0 to 5)
Zoonotic impact	The Y453F mutation in the spike (S) protein of the virus, referred to as mink-related-variant, has been detected in 5 sequenced SARS-CoV-2 genomes from human cases directly related to mink (farm workers/owners). With regard to the sequenced mink samples, the latest results show the presence of the Y453F mutation in 1 of the farms tested 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
Causal agent	SARS-CoV-2

### New outbreaks (3)

Outbreak 1 (KOZANI_7)	Regional Unit of Kozani, Local Community of Klima, Municipality of Voio, Dytiki Makedonia								
Date of start of the outbreak	04/12/2020								
Outbreak status	Continuing (or date	e resolved not provide	d)						
Epidemiological unit	Farm								
Affected animals	Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered			
	Mustelidae 2300 43 43 0 0								
Affected population	following notification (oropharyngeal sw died were relativel	on about a) increased rabs) were collected fr y old and fat and show	mortality ar om ten dea ved mild re	nd b) a confirm ad animals and spiratory symp	was raised in the framework of pass ed human case (farm owner) for CO' all of them were tested positive with toms and reduced feed intake. It is as use of missing information.	VID-19. Samples RT- PCR. Mink that			

Outbreak 2 (KOZANI_8)	Regional Unit of Kozani, Local Community of Peponia, Municipality of Voio, Dytiki Makedonia							
Date of start of the outbreak	04/12/2020							
Outbreak status	Continuing (or date	resolved not provide	ed)					
Epidemiological unit	Farm							
	Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered		
Affected animals	Mustelidae	7500	900	160		0		
Affected population	following notification	n about a) increased	mortality a abs) were o	nd b) four conf collected from	n was raised in the framework of p firmed human cases (farm owner a ten dead animals and all of them ed feed intake.	and workers) for		

Outbreak 3 (GREVENA_3)	Regional Unit of Grevena, Local Community of Kivotos, Municipality of Grevena, Dytiki Makedonia	
Date of start of the outbreak	04/12/2020	
Outbreak status	Continuing (or date resolved not provided)	

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Epidemiological unit	Farm					
	Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered
Affected animals	Mustelidae	4000	0	0		0 0
Affected population	following notification collected from twee intake was not red	on about a confirmed nty animals and were	human cas tested pos t increase.	e (farm work itive with RT It was neglig	on was raised in the framework of per) for COVID-19. Samples (oropha-PCR. Mink showed no respiratory gible and within the expected range	aryngeal swabs) were symptoms and feed

Summary of outbreaks	Total outbre	aks: 3					
Total animals affected	Specie	Species Susceptible Cases Deaths Killed and		Killed and disp	osed of	Slaughtered	
	Mustelidae	1380	0 943	20	03	0	0
Outbreak statistics	Species	Apparent morbidity rate	Apparent m	-	Apparent case fatality rate		sceptible animals
	Mustelidae	6.83%		1.47%	21.53%		1.47%

## Epidemiology

Source of the outbreak(s) or origin of infection	Unknown or inconclusive Farm staff from all infected farms tested positive for COVID-19
Epidemiological comments	In total, 15 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**

Measures applied	Movement control inside the country Surveillance outside containment and/or protection zone Surveillance within containment and/or protection zone Traceability Quarantine Zoning Vaccination permitted (if a vaccine exists) No treatment of affected animals
Measures to be applied	No other measures

# Diagnostic test results

Laboratory name and type	Species	Test	Test date	Result
Centre for Research and Technology Hellas (CERTH) (National laboratory)	Mustelidae	real-time PCR	08/12/2020	Positive

## **Future Reporting**

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

## Map of outbreak locations

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