

Follow-up report 5

22/01/2021

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

Sender	Country/territory	Report ID
Delegate of United States of America	United States of America	FUR_37755
Event status	Self-declaration	
On-going	No	

General information

Country or zone - Country	Disease - SARS-CoV-2 in animals (Inf. with)	Started on - 22/10/2020
Animal type - Terrestrial	Confirmed on - 13/04/2021	Causal agent - SARS-CoV-2
Disease category - Emerging	Reported on - 22/01/2021	Reason - Emerging disease

Disease impact

Outbreak morbidity - 2.0	Outbreak mortality - 1.0
Zoonotic potential - Yes	Zoonotic potential description - Zoonotic potential under investigation

Epidemiology

Source of the event or origin of the infection - Suspected human transmission

Epidemiological comments 22 Jan 2021 Update: Arkansas (AR): A domestic indoor/outdoor cat from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories (NVSL) based upon molecular testing (sequencing). The cat presented to the veterinary clinic with mucopurulent nasal discharge, open-mouthed breathing and ulcerated oral mucosa, suspicious of toxin ingestion. He was diagnosed and treated for acute renal failure and severe dehydration. Due to the cat's nasal discharge and residence in a COVID-positive household, samples were collected for SARS-CoV-2 testing. The cat has since reportedly recovered and is being kept indoors until further notice from State Officials. Tennessee (TN): A domestic cat from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories (NVSL) based upon molecular testing (PCR and sequencing). The cat was febrile and exhibited respiratory signs. Two other kittens in the same household also displayed respiratory signs. All three cats have reportedly recovered.

Control measures at event level

Domestic control measures

Applied

- Quarantine
- Disinfection

Wild control measures

Applied

- Quarantine
- Disinfection

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 reverse transcription polymerase	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Cats		16/11/2020		Positive

chain reaction (rRT-PCR)								
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Cats		16/11/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Dogs		07/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Dogs		07/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Cats		07/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Cats		07/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Snow Leopard		10/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Snow Leopard		10/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Dogs		11/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Dogs		11/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Dogs		21/12/2020		Positive
Real-time reverse transcription	Nucleic acid detection	Laboratory Test	National Veterinary Services	Dogs		21/12/2020		Positive

polymerase chain reaction (rRT-PCR)			Laboratories					
Virus neutralisation tests (Ab VNT)	Antibody detection tests	Laboratory Test	National Veterinary Services Laboratories	Dogs		21/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Snow Leopard		30/12/2020		Positive
Virus neutralisation tests (Ab VNT)	Antibody detection tests	Laboratory Test	National Veterinary Services Laboratories	Dogs		31/12/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Veterinary Services Laboratories	Cats		31/12/2020		Positive
Gene sequencing	Genotyping	Laboratory Test	National Veterinary Services Laboratories	Cats		31/12/2020		Positive

Quantitative data summary

Measuring unit - Animal

Species	Type	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
Cats	New	4	2	0	0	0	-	-	-
Cats	Total	13	11	1	1	0	-	84.62	7.69
Snow Leopard (Panthera uncia):Felidae-Carnivora	New	-	-	-	-	-	-	-	-
Snow Leopard (Panthera uncia):Felidae-Carnivora	Total	3	3	0	0	0	-	100.0	0.0
Swine	New	-	-	-	-	-	-	-	-
Swine	Total	1	-	0	0	0	-	-	0.0
Dogs	New	-	-	-	-	-	-	-	-
Dogs	Total	10	4	0	0	0	-	66.67	0.0
Gorilla (Gorilla gorilla):Hominidae-Primates	New	-	-	-	-	-	-	-	-
Gorilla (Gorilla gorilla):Hominidae-Primates	Total	8	3	0	0	0	-	37.5	0.0
All species	New	4	2	0	0	0	-	-	-

All species	Total	35	21	1	1	0	-	70.0	2.86
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Event morbidity - 2.0

Event mortality - 1.0

Outbreaks

1000143192-San Bernardino County

Started on - 28/12/2020

First administrative division - California

Second administrative division - San Bernardino

Epidemiological unit - Other

Geographic coordinates - 34.145,-117.282

Location - San Bernardino County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000144072-Knox County

Started on - 09/01/2021

First administrative division - Tennessee

Second administrative division - Knox

Epidemiological unit - Other

Geographic coordinates - 35.927,-84.052

Location - Knox County

Description of the affected populationPet domestic cats (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	3	1	0	0	0	-
Cats	Total	Animal	3	1	0	0	0	-
All species	New	Animal	3	1	0	0	0	-
All species	Total	Animal	3	1	0	0	0	-

1000143191-Pottawatomie County

Started on - 01/01/2021

First administrative division - Kansas

Second administrative division - Pottawatomie

Epidemiological unit - Other

Geographic coordinates - 39.386,-96.418

Location - Pottawatomie County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	1	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	1	0	0	-

1000141361-Washington County

Started on - 13/11/2020

First administrative division - Pennsylvania

Second administrative division - Washington

Epidemiological unit - Other

Geographic coordinates -
40.183,-80.26

Location - Washington County

Description of the affected populationPet domestic dog (Canis lupus familiaris) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000144070-Saline County

Started on - 07/01/2021

First administrative division - Arkansas

Second administrative division - Saline

Epidemiological unit - Other

Geographic coordinates -
34.623,-92.534

Location - Saline County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	1	1	0	0	0	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	1	1	0	0	0	-
All species	Total	Animal	1	1	0	0	0	-

1000141415-Riley County

Started on - 03/12/2020

First administrative division - Kansas

Second administrative division - Riley

Epidemiological unit - Other

Geographic coordinates -
39.185,-96.559

Location - Riley County

Description of the affected populationPet domestic dogs (Canis lupus familiaris) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	-

1000141417-Okaloosa County

Started on - 08/11/2020

First administrative division - Florida

Second administrative division - Okaloosa

Epidemiological unit - Other

Geographic coordinates -
30.725,-86.568

Location - Okaloosa County

Description of the affected populationPet domestic dogs (Canis lupus familiaris) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	-

1000141418-Tarrant County

Started on - 20/11/2020

First administrative division - Texas

Second administrative division - Tarrant

Epidemiological unit - Other

Geographic coordinates -
32.801,-97.469

Location - Tarrant County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000142849-Rockingham County

Started on - 07/12/2020

First administrative division - Virginia

Second administrative division -
Harrisonburg

Epidemiological unit - Other

Geographic coordinates -
38.437,-78.851

Location - Rockingham County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	1	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	1	0	-

1000141363-Eau Claire County

Started on - 17/11/2020

First administrative division - Wisconsin

Second administrative division - Eau
Claire

Epidemiological unit - Other

Geographic coordinates -
44.831,-91.488

Location - Eau Claire County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000142210-Montgomery County

Started on - 14/12/2020

First administrative division - Pennsylvania

Second administrative division -
Montgomery

Epidemiological unit - Other

Geographic coordinates -
40.137,-75.342

Location - Montgomery County

Description of the affected populationPet domestic dog (Canis lupus familiaris) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and	Slaughtered	Vaccinated
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						disposed of		
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000141354-Brazos County

Started on - 22/10/2020

First administrative division - Texas

Second administrative division - Brazos

Epidemiological unit - Other

Geographic coordinates -
30.681,-96.305

Location - Brazos County

Description of the affected populationPet domestic cats (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	2	2	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	2	0	0	0	-

1000142850-Polk County

Started on - 16/12/2020

First administrative division - Florida

Second administrative division - Polk

Epidemiological unit - Other

Geographic coordinates -
27.839,-81.784

Location - Polk County

Description of the affected populationPet domestic cat (Felis catus), dogs (Canis lupus familiaris) and pig (Sus scrofa domesticus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	4	-	0	0	0	-
Swine	New	Animal	-	-	-	-	-	-
Swine	Total	Animal	1	-	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	6	1	0	0	0	-

1000141355-Brazos County

Started on - 15/11/2020

First administrative division - Texas

Second administrative division - Brazos

Epidemiological unit - Other

Geographic coordinates -
30.711,-96.402

Location - Brazos County

Description of the affected populationPet domestic cat (Felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-

All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

1000143027-San Diego County

Started on - 06/01/2021

First administrative division - California

Second administrative division - San Diego

Epidemiological unit - Zoo

Geographic coordinates -
32.842,-117.12

Location - San Diego County

Description of the affected populationWestern lowland gorillas (*Gorilla gorilla gorilla*) in a zoo

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Gorilla (<i>Gorilla gorilla</i>):Hominidae-Primates	New	Animal	-	-	-	-	-	-
Gorilla (<i>Gorilla gorilla</i>):Hominidae-Primates	Total	Animal	8	3	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	8	3	0	0	0	-

1000141358-Jefferson County

Started on - 27/11/2020

First administrative division - Kentucky

Second administrative division - Jefferson

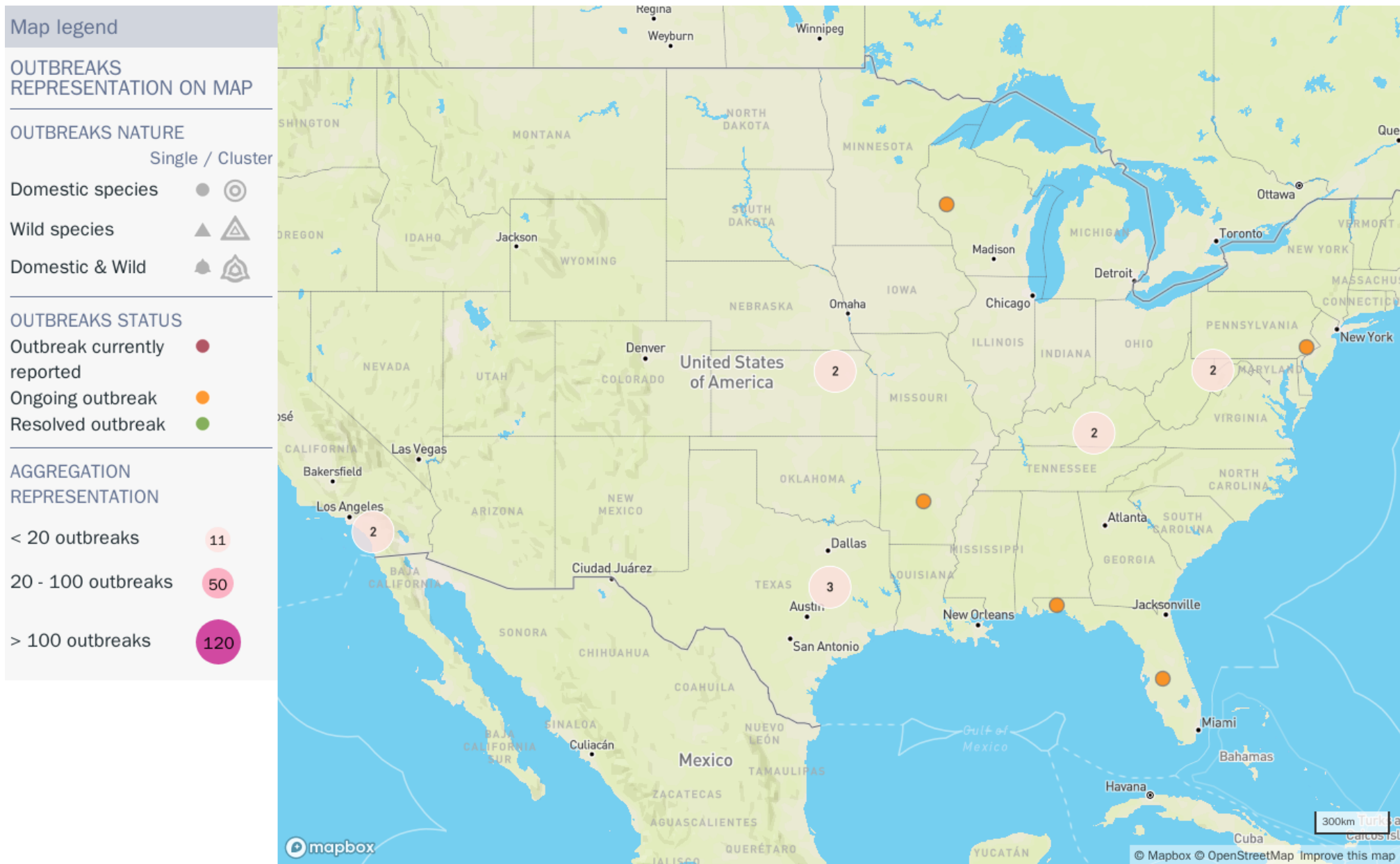
Epidemiological unit - Zoo

Geographic coordinates -
38.278,-85.715

Location - Jefferson County

Description of the affected populationAdult snow leopards (*Panthera uncia*) in a zoo.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Snow Leopard (<i>Panthera uncia</i>):Felidae-Carnivora	New	Animal	-	-	-	-	-	-
Snow Leopard (<i>Panthera uncia</i>):Felidae-Carnivora	Total	Animal	3	3	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	3	3	0	0	0	-



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