

# United States of America - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 44

**GENERAL INFORMATION** 

COUNTRY/TERRITORY OR ZONE ANIMAL TYPE DISEASE CATEGORY EVENT ID

ZONE TERRESTRIAL Listed disease 4451

DISEASE CAUSAL AGENT GENOTYPE / SEROTYPE / START DATE

SUBTYPE

Influenza A viruses of high Highly pathogenic avian influenza H5N1 2022/03/30

pathogenicity (Inf. with) (non-poultry virus

including wild birds) (2017-)

REASON FOR NOTIFICATION DATE OF LAST OCCURRENCE CONFIRMATION DATE EVENT STATUS

Unusual host species - 2022/05/05 On-going

END DATE SELF-DECLARATION

- NO

#### REPORT INFORMATION

REPORT NUMBERREPORT IDREPORT REFERENCEREPORT DATEFollow-up report 44FUR\_166639-2024/03/26

REPORT STATUS NO EVOLUTION REPORT

Validated -

# **EPIDEMIOLOGY**

#### SOURCE OF EVENT OR ORIGIN OF INFECTION

- Contact with wild species
- Unknown or inconclusive

#### **EPIDEMIOLOGICAL COMMENTS**

Highly pathogenic avian influenza (HPAI) H5N1 Eurasian lineage goose/Guangdong clade 2.3.4.4b was confirmed in samples from sick cattle collected from at least one dairy farm in Kansas and at least one dairy farm in Texas. The initial sequences represent a sporadically detected 4 gene reassortant (B3.13 per GenoFlu) descended from the previously predominant genotype B3.2 first observed in wild birds in November 2023. No markers for mammalian adaptation nor antiviral resistance were observed. This is an evolving situation - additional work and studies are in process. Federal and state agencies are moving quickly to conduct additional testing for HPAI, as well as viral genome sequencing, so that we can better understand the situation, including characterization of the HPAI strain or strains associated with these detections.

# QUANTITATIVE DATA SUMMARY

#### **MEASURING UNIT**

Animal

Species		Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
coyote (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	1	_	1	-	-
cats (domestic)	NEW	_	_	_	-	-	_
	TOTAL	_	7	1	4	-	_
virginia opossum (wild)	NEW		_	_	-	-	_
	TOTAL		4	3	1	-	_
domestic cat (wild)	NEW		_	_	_	-	_
` ,	TOTAL		6	1	1	-	_
goats (domestic)	NEW		_	_	_	-	_
,	TOTAL		5	5	-	_	_
gray seal (wild)	NEW		_	_	_	_	_
g. ay coat (may	TOTAL		1	1	_	_	_
bobcat (wild)	NEW		_	-	_	_	_
boboat (wita)	TOTAL		6	4	2	_	_
striped skunk (wild)	NEW		-	-	-	_	_
striped skurik (wita)	TOTAL		42		14		
tiger (wild)	NEW		<del>4</del> 2	-	-	-	-
tiger (wita)						-	-
h (	TOTAL		1	1	-	-	-
harbor seal (wild)	NEW		-	-	-	-	-
	TOTAL		21	19	2	-	-
racoon (northern raccoon) (wild)	NEW		-	-	-	-	-
	TOTAL		15	5	4	-	-
puma (wild)	NEW		-	-	-	-	-
	TOTAL		22	22	-	-	-
bottlenose dolphin (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	1	1	-	-	-
american black bear	NEW	-	-	-	-	-	-
(black bear) (wild)	TOTAL	-	4	1	3	-	-
brown bear (grizzly bear)	NEW	-	-	-	-	-	-
(wild)	TOTAL	-	4	3	1	-	-
polar bear (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	-	1	-	-	-
red fox (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	85	48	19	-	-
amur leopard (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	1	1	-	-	-
fisher (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	3	2	1	-	-
north american river otter	NEW	-	-	-	-	-	-
(wild)	TOTAL	_	1	1	-	-	-
american marten (wild)	NEW	-	-	-	-	-	-
•	TOTAL		1	1	_	-	-
abert's squirrel (wild)	NEW		_	_	-	-	_
	TOTAL		1	_	_	-	_
bovine (domestic)	NEW		9	0	0	0	0
. ,	TOTAL		9	0	0	0	0
	_						

all species	NEW -	9	0	0	0	0
	TOTAL 165	241	148	53	0	0

#### DIAGNOSTIC DETAILS

CLINICAL SIGNS METHOD OF DIAGNOSTIC

YES Clinical,
Diagnostic test

Test name	Laboratory	Species sampled	Number of outbreaks sampled	First result date	Latest result date	Result
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Veterinary Services Laboratories (NVSL), Ames, Iowa	Cats, Red Fox, Fisher, Brown bear (Grizzly Bear), Gray Seal, Domestic cat, Puma, American Black Bear (black bear), Racoon (Northern raccoon), Tiger, North American river otter, Bobcat, Harbor Seal, Bottlenose dolphin, Virginia Opossum, American marten, Amur Leopard, Striped Skunk, Polar Bear, Abert's squirrel, Coyote, Bovine, Goats	175	2022/05/05	2024/03/25	Positive

## CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL	DOMESTIC ANIMALS	WILD ANIMALS
Disinfection		Applied
Official disposal of carcasses, by-products and waste		Applied
Surveillance within the restricted zone		Applied

#### **NEW OUTBREAKS**

# OB\_133485 - HARTLEY NON-AVIAN 01 - HARTLEY COUNTY

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
Hartley non-avian 01	2024/03/20	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Texas	Hartley	-	Farm
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Hartley County	36.051 , -102.515 (Approximate location)	-	Animal

# AFFECTED POPULATION DESCRIPTION

Commercial dairy milking cows experiencing an unexplained morbidity event with some later-lactation cows exhibiting decreased lactation, low appetite and other clinical signs. HPAI H5N1 clade 2.3.4.4b from bovine origin samples was confirmed at the National Veterinary Services Laboratory (NVSL). Epidemiologic investigations are ongoing.

Species	Wildlife	Susceptible Cases Deaths			s Killed and	Slaughtered/ Killed for	r Vaccinated	
	type				Disposed of	commercial use		
bovine	NEW	-	8	0	0	0	0	
(domestic)	TOTAL	-	8	0	0	0	0	

## **METHOD OF DIAGNOSTIC**

Diagnostic test

## **CONTROL MEASURES DIFFERENT FROM EVENT LEVEL**

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

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# OB\_133490 - SEWARD NON-AVIAN 01 - SEWARD COUNTY

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
Seward non-avian 01	2024/03/21	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Kansas	Seward	-	Farm
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Seward County	37.043 , -100.921 (Approximate location)	-	Animal

#### AFFECTED POPULATION DESCRIPTION

Commercial dairy milking cows experiencing an unexplained morbidity event with some later-lactation cows exhibiting decreased lactation, low appetite and other clinical signs. HPAI H5N1 clade 2.3.4.4b from bovine origin samples was confirmed at the National Veterinary Services Laboratory (NVSL). Epidemiologic investigations are ongoing.

Species	Wildlife	Susceptible Cases Deaths			s Killed and	Slaughtered/ Killed for	Vaccinated
	type				Disposed of	commercial use	
bovine	NEW	-	1	0	0	0	0
(domestic)	TOTAL	-	1	0	0	0	0

## **METHOD OF DIAGNOSTIC**

Diagnostic test

# **CONTROL MEASURES DIFFERENT FROM EVENT LEVEL**

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

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