

United States of America - High pathogenicity avian influenza viruses (poultry) (Inf. with) - Follow-up report 1

GENERAL INFORMATION

COUNTRY/TERRITORY OR ZONE	ANIMAL TYPE	DISEASE CATEGORY	EVENT ID
ZONE	TERRESTRIAL	Listed disease	6201
DISEASE	CAUSAL AGENT	GENOTYPE / SEROTYPE / SUBTYPE	START DATE
High pathogenicity avian influenza viruses (poultry) (Inf. with)	Highly pathogenic avian influenza virus	H5 (N untyped)	2024/11/23
REASON FOR NOTIFICATION	DATE OF LAST OCCURRENCE	CONFIRMATION DATE	EVENT STATUS
New strain in the country	-	2025/01/13	On-going
END DATE	SELF-DECLARATION		
-	NO		

REPORT INFORMATION

REPORT NUMBER	REPORT ID	REPORT REFERENCE	REPORT DATE
Follow-up report 1	FUR_171864	-	2025/01/31
REPORT STATUS	NO EVOLUTION REPORT		
Validated	-		

EPIDEMIOLOGY

SOURCE OF EVENT OR ORIGIN OF INFECTION

- Unknown or inconclusive

EPIDEMIOLOGICAL COMMENTS

Highly pathogenic avian influenza (HPAI) H5N9, Eurasian lineage goose/Guangdong clade 2.3.4.4b and HPAI H5N1 clade 2.3.4.4b were confirmed in a commercial duck premises in Merced County, CA. This is the first confirmed case of HPAI H5N9 in poultry in the United States. The USDA Animal and Plant Health Inspection Service (APHIS), in conjunction with State Animal Health and Wildlife Officials, are conducting comprehensive epidemiological investigations and enhanced surveillance in response to the HPAI related events. It should be noted that although this is the first N9 reassortant of North American lineage reported during this event, the use of hemagglutinin (HA) and NA subtyping alone should not be overinterpreted as it is insufficient to understand the geolineage, pathotype, and maintenance of influenza A viruses. Highly pathogenic avian influenza (HPAI) H5N1 clade 2.3.4.4b genotype D1.1, as well as HPAI H5N9 clade 2.3.4.4b genotype Minor101 were identified. The Minor101 genotype is essentially the D1.1 virus with the H5 clade 2.3.4.4b HA gene, but with a North American low pathogenicity virus containing a North American (AM) N9 neuraminidase (NA) gene instead of the AM N1 gene of genotype D1.1. Ducks, both domestic and wild, are natural reservoirs for influenza A virus, and reassortment is not unexpected where more than one influenza A virus is circulating. The 'D' genotypes have predominated this fall and winter and have demonstrated frequent reassortment replacing the Eurasian N1 with other AM NA genes. Importantly, this finding is unrelated to recent reports in China of an HPAI H5N9 virus which is an H5 clade 2.3.2.1 (not detected in the U.S.) with the N9 of the Anhui-lineage H7N9 (also never detected in animals in the U.S.).

QUANTITATIVE DATA SUMMARY

MEASURING UNIT

Animal

Species	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds	NEW	-	-	-	-	-
(domestic)	TOTAL	118954	-	-	118954	-

DIAGNOSTIC DETAILS

CLINICAL SIGNS

YES

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

Test name	Laboratory	Species sampled	Number of outbreaks sampled	First result date	Latest result date	Result
Gene sequencing	National Veterinary Services Laboratories (NVSL), Ames, Iowa	Birds	1	2025/01/13	2025/01/13	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Veterinary Services Laboratories (NVSL), Ames, Iowa	Birds	1	2024/12/14	2024/12/14	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

Movement control
Surveillance outside the restricted zone
Traceability
Surveillance within the restricted zone
Quarantine
Zoning

DOMESTIC ANIMALS

Applied
Applied
Applied
Applied
Applied
Applied

WILD ANIMALS

UPDATED OUTBREAKS

OB_147575 - MERCED 18 - MERCED COUNTY

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
Merced 18	2024/11/23	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
California	Merced	-	Farm
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit

Merced County

37.307 , -120.482
(Approximate location)

-

Animal

AFFECTED POPULATION DESCRIPTION

A commercial duck meat bird premises. HPAI clade 2.3.4.4b H5N1 and HPAI clade 2.3.4.4b H5N9 were identified in samples from the affected flock. Clinical signs included increased mortality. State officials have quarantined the affected premises. Depopulation was completed on 02 Dec 2024.

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic)	NEW	-	-	-	-	-	-
poultry	TOTAL	118954	-	-	118954	-	-

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

- Stamping out

MAP

Map legend

OUTBREAKS REPRESENTATION ON MAP

OUTBREAKS NATURE

Single / Cluster

Domestic species



Wild species



Domestic & Wild



OUTBREAKS STATUS

Outbreak currently reported



Ongoing outbreak



Resolved outbreak



OUTBREAKS LOCATION

Approximate location

A

AGGREGATION REPRESENTATION

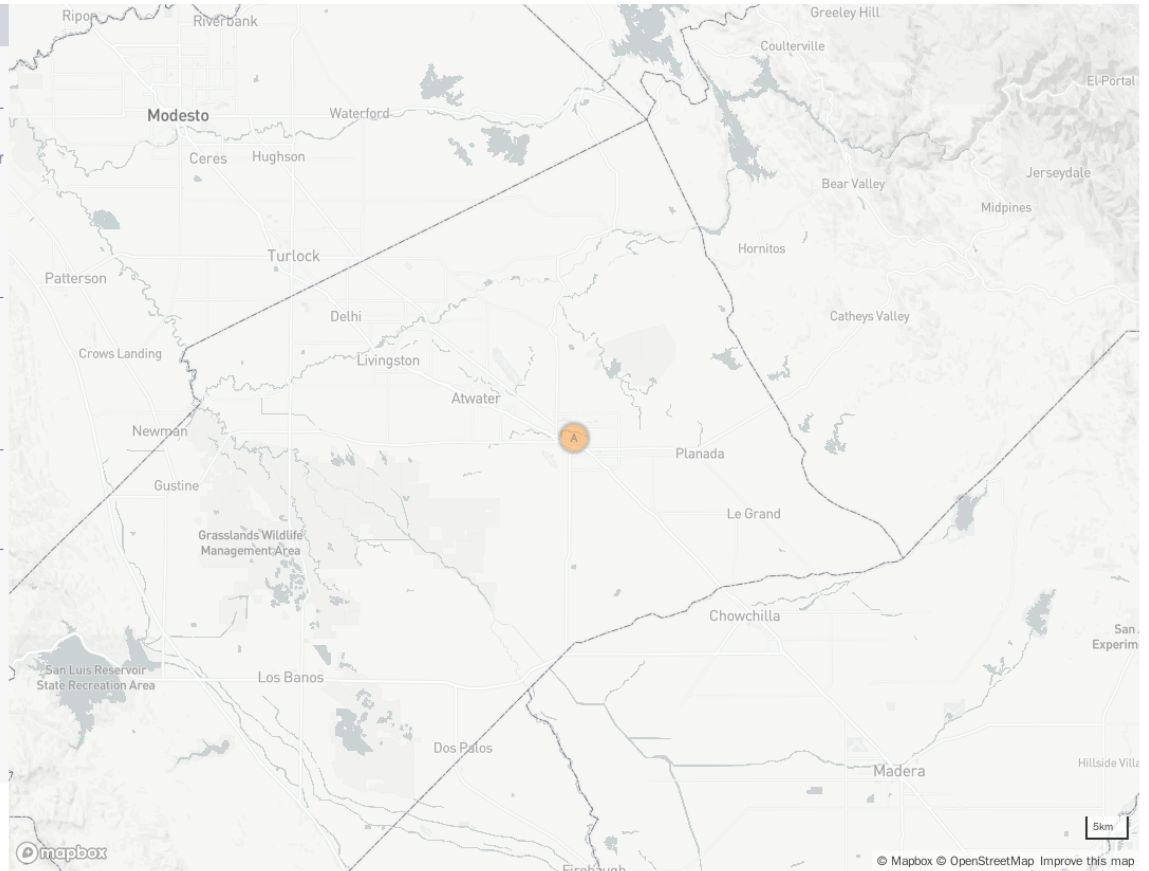
< 20 outbreaks



20 - 100 outbreaks



> 100 outbreaks



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