

Follow-up report No.4

Report reference: , Reference OIE : 17031, Report Date : 22/01/2015, Country : United States of America

Report Summary

Name of sender of the report	Dr John Clifford	Telephone	(1-202) 799-7146
Position	Deputy Administrator	Fax	(1-202) 799-7146
Address	Room # 317-E	Email	John.Clifford@aphis.usda.gov
	Jamie L. Whitten Federal Building 1400 Independence Ave, SW Washington, DC 20250 Washington 20250	Date submitted to OIE	22/01/2015

Animal type	Terrestrial	Date of report	22/01/2015
Disease	Highly pathogenic avian influenza	Date of start of the event	10/12/2014
Causal Agent	Highly pathogenic avian influenza	Date of pre-confirmation of the event	14/12/2014
Serotype(s)	H5N8	Date of last occurrence	2004
Reason	Reoccurrence of a listed disease	Diagnosis	Laboratory (advanced)
Country or zone	a zone or compartment	Clinical signs	Yes
Number of reported outbreaks	submitted= 6, Draft= 0		

Outbreak details

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Whatcom		Not applicable	Whatcom County	48.98	-122.47	10/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Gyr Falcon:Falconidae(Falco rusticolus)	Animals	...	...	...	...	...
Affected Population	Captive wild gyrfalcon								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON-other report - submitted	-	Douglas		Backyard	Douglas County	43.12	-123.41	16/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	130	28	28	102	0			
Affected Population	The affected premises is a small backyard mixed flock of guinea fowl, chickens, ducks, and geese that are allowed access to the outdoors and regularly exposed to wild migratory waterfowl.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CALIFORNIA- (this report - submitted)	-	Butte		Not applicable	Butte County	39.672	-121.591	02/01/2015	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Gadwall:Anatidae(Anas strepera)	Animals	...	...	...	...	...
Affected Population	Hunter harvested wild gadwall duck								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
UTAH- (this report - submitted)	-	Davis		Not applicable	Davis County	40.999	-111.929	09/01/2015	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
American wigeon:Anatidae(Anas americana)	Animals	...	...	...	...	...
Affected Population	Hunter harvested wild American wigeon duck.								

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CALIFORNIA- (this report - submitted)	-	Yolo		Not applicable	Yolo county	38.72	-121.933	09/01/2015	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Green-winged Teal:Anatidae(Anas carolinensis)	Animals	...	...	...	...	...
Affected Population	Hunter harvested wild American green-winged teal duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
IDAHO- (this report - submitted)	-	Gooding		Not applicable	Gooding County	42.932	-114.807	16/01/2015	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...
Affected Population	Hunter harvested wild mallard duck								

Outbreak summary: Total outbreaks = 6 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Gyr Falcon					
Birds	130	28	28	102	0
Gadwall					
American wigeon					
Green-winged Teal					
Mallard					

Epidemiology

Epidemiological comments

The USDA Animal and Plant Health Inspection Service (APHIS), in conjunction with State Departments of Agriculture and Wildlife, are continuing to conduct a comprehensive epidemiological investigation and enhanced surveillance (including wild bird surveillance of hunter harvested birds) in response to the HPAI H5N8 wild bird related event. Novel avian influenza virus of Eurasian origin (EA-H5N8 clade 2.3.4.4) spread rapidly along wild bird migratory pathways during 2014. Introduction of this EA-H5N8 virus into the Pacific Flyway sometime during 2014 has allowed mixing with North American (AM) lineage viruses and generated new combinations with genes from both EA and AM origin (or "reassortant" viruses) such as this EA/AM H5N2-reassortant detected in Canada and the US. These findings are not unexpected as the EA-H5N8 virus continues to circulate. The EA H5 clade 2.3.4.4 viruses are highly pathogenic for poultry.

As part of the increased AI surveillance of wild birds (performed by testing hunter harvested birds), H5N8 with an amino acid sequence at the HA cleavage site that is consistent with highly pathogenic avian influenza has been identified in wild ducks in the Pacific flyway. HA and NA sequence fragments from these viruses, and the virus from the backyard finding, are essentially identical to that found in the reported gyrfalcon.

Update on the Oregon backyard premises as of 17 January 2015:

- A 10 km active surveillance zone was initiated for avian influenza.
 - All surveillance and testing has been negative for AI.

The HPAI EA-H5N8 virus has NOT been found in commercial poultry anywhere in the United States.

Source of the outbreak(s) or origin of infection

- Contact with wild species

Measures applied

Applied	To be applied
<ul style="list-style-type: none"> • stamping out • quarantine • movement control inside the country • disinfection of infected premises/establishment(s) 	<ul style="list-style-type: none"> • no planned control measures
Animals treated	Vaccination Prohibited
No	Yes

Diagnostic test results

Follow-up report No.: 4, Report reference: , OIE Ref: 17031, Report Date: 22/01/2015, Country: United States of America

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	16/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Green-winged Teal	virus sequencing	09/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	American wigeon	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	09/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Gadwall	virus sequencing	02/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	virus sequencing	16/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Green-winged Teal	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	09/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	American wigeon	virus sequencing	09/01/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Gadwall	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	02/01/2015	Positive

Future Reporting

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

Outbreak maps

