Follow-up report No.5

Report reference: , Reference OIE : 17194, Report Date : 17/02/2015, Country : United States of America

Report Summary

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		Date submitted to OIE	17/02/2015

Animal type	Terrestrial	**Date of report**	17/02/2015
Disease	Highly pathogenic avian influenza	**Date of start of the event**	10/12/2014
Causal Agent	Highly pathogenic avian influenza virus	**Date of pre-confirmation of the event**	15/12/2014
Serotype(s)	H5N2	**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= 21, 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	48.9	-122.48	15/12/2014	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Northern Pintail:Anatidae(Anas acuta)	Animals	...	...	...	...	...			
Affected Population	Wild pintail ducks								

State	**Number of outbreaks**	**County**		**Unit Type**	**Location**	**Latitude**	**Longitude**	**Start Date**	**End Date:**
WASHINGTON-other report - submitted	-	Benton		Backyard	Benton County	46.283	-119.521	24/12/2014	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Birds	Animals	253	37	37	216	0			
Affected Population	The affected premises was a small backyard mixed free-range flock of geese, turkeys, chickens, ducks, and pigeons that were allowed access to the outdoors and regularly exposed to wild migratory waterfowl. The affected premises also included a related epidemiology linked backyard flock that received birds (ducks) from the index flock.								

State	**Number of outbreaks**	**County**		**Unit Type**	**Location**	**Latitude**	**Longitude**	**Start Date**	**End Date:**
WASHINGTON-other report - submitted	-	Whatcom		Not applicable	Whatcom County	48.785	-122.1858	24/12/2014	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck.								

State	**Number of outbreaks**	**County**		**Unit Type**	**Location**	**Latitude**	**Longitude**	**Start Date**	**End Date:**
IDAHO-other report - submitted	-	Canyon		Backyard	Canyon County	43.615	-116.683	07/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Birds	Animals	31	5	5	26	0			
Affected Population	The affected premises was a small backyard poultry flock of chickens and two ducks which were periodically allowed to range freely.								

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
State	**Number of outbreaks**	**County**		**Unit Type**	**Location**	**Latitude**	**Longitude**	**Start Date**	**End Date:**
WASHINGTON-other report - submitted	-	Clallam		Backyard	Clallam County	48.102	-123.28	08/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Birds	Animals	100	3	3	97	0			
Affected Population	The affected premises was a small mixed free-range backyard flock of geese, ducks, and chickens that were 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:
OREGON-other report - submitted	-	Lane		Not applicable	Lane County	44.049	-123.28	12/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
IDAHO-other report - submitted	-	Canyon		Not applicable	Canyon County	43.649	-116.763	16/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Peregrin falcon:Falconidae(Falco peregrinus)	Animals	...	...	...	...	...			
Affected Population	Captive peregrin falcon.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Clark		Not applicable	Clark County	45.7456	-122.4953	16/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Northern Pintail:Anatidae(Anas acuta)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild pintail duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON-other report - submitted	-	Columbia		Not applicable	Columbia County	45.9453	-123.067	16/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Okanogan		Backyard	Okanogan County	48.4431	-119.652	21/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Birds	Animals	70	40	40	30	...			
Affected Population	The affected premises was a small backyard poultry flock of chickens.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Okanogan		Backyard	Okanogan County	48.51	-119.6522	25/01/2015	

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Birds	Animals	4873	52	52	4821	...			
Affected Population	The affected premises was a backyard game bird raising premises consisting of pheasants, mallard ducks, geese, partridges, and chickens.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Whatcom		Not applicable	Whatcom County	48.902	-122.5297	26/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Cooper's Hawk:Accipitridae(Accipiter cooperii)	Animals	...	...	...	...	...			
Affected Population	Wild bird surveillance								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Skagit		Not applicable	Skagit County	48.4876	-121.784	26/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Red-tailed hawk:Accipitridae(Buteo jamaicensis)	Animals	...	...	...	...	...			
Affected Population	Wild bird surveillance								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WASHINGTON-other report - submitted	-	Whatcom		Not applicable	Whatcom County	48.8312	-122.2025	30/01/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Columbia		Not applicable	County - Columbia	45.9852	-122.4717	02/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Northern Pintail:Anatidae(Anas acuta)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild northern pintail duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Morrow		Not applicable	County - Morrow	45.595	-119.62	02/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Northern Shoveler:Anatidae(Anas clypeata)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild Northern Shoveler ducks.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Morrow		Not applicable	Morrow County	45.4515	-119.6146	02/02/2015	

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State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Wood Duck:Anatidae(Aix sponsa)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild wood ducks.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Columbia		Not applicable	Columbia County	45.9855	-122.898	02/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard ducks								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Lane		Not applicable	County - Lane	43.7293	-122.3465	03/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Northern Pintail:Anatidae(Anas acuta)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild northern pintail duck.								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OREGON- (this report - submitted)	-	Lane		Not applicable	Lane County	43.8247	-122.4717	03/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck								

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
IDAHO- (this report - submitted)	-	Canyon		Not applicable	Canyon County	43.7012	-116.8638	09/02/2015	
Species	**Measuring units**	**Susceptible**	**Cases**	**Deaths**	**Destroyed**	**Slaughtered**			
Mallard:Anatidae(Anas platyrhynchos)	Animals	...	...	...	...	...			
Affected Population	Hunter harvested wild mallard duck.								

Outbreak summary: Total outbreaks = 21 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Northern Pintail					
Birds	5327	137	137	5190	0
Mallard					
Peregrin falcon					
Cooper's Hawk					
Red-tailed hawk					
Northern Shoveler					
Wood Duck					

Epidemiology

Epidemiological comments

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Epidemiological comments
Source of the outbreak(s) or origin of infection
• Contact with wild species
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 H5N2 wild bird related event. All backyard premises have been quarantined and enhanced active surveillance is being conducted in and around the backyard flocks. 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. The HPAI EA/AM H5N2-reassortant 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

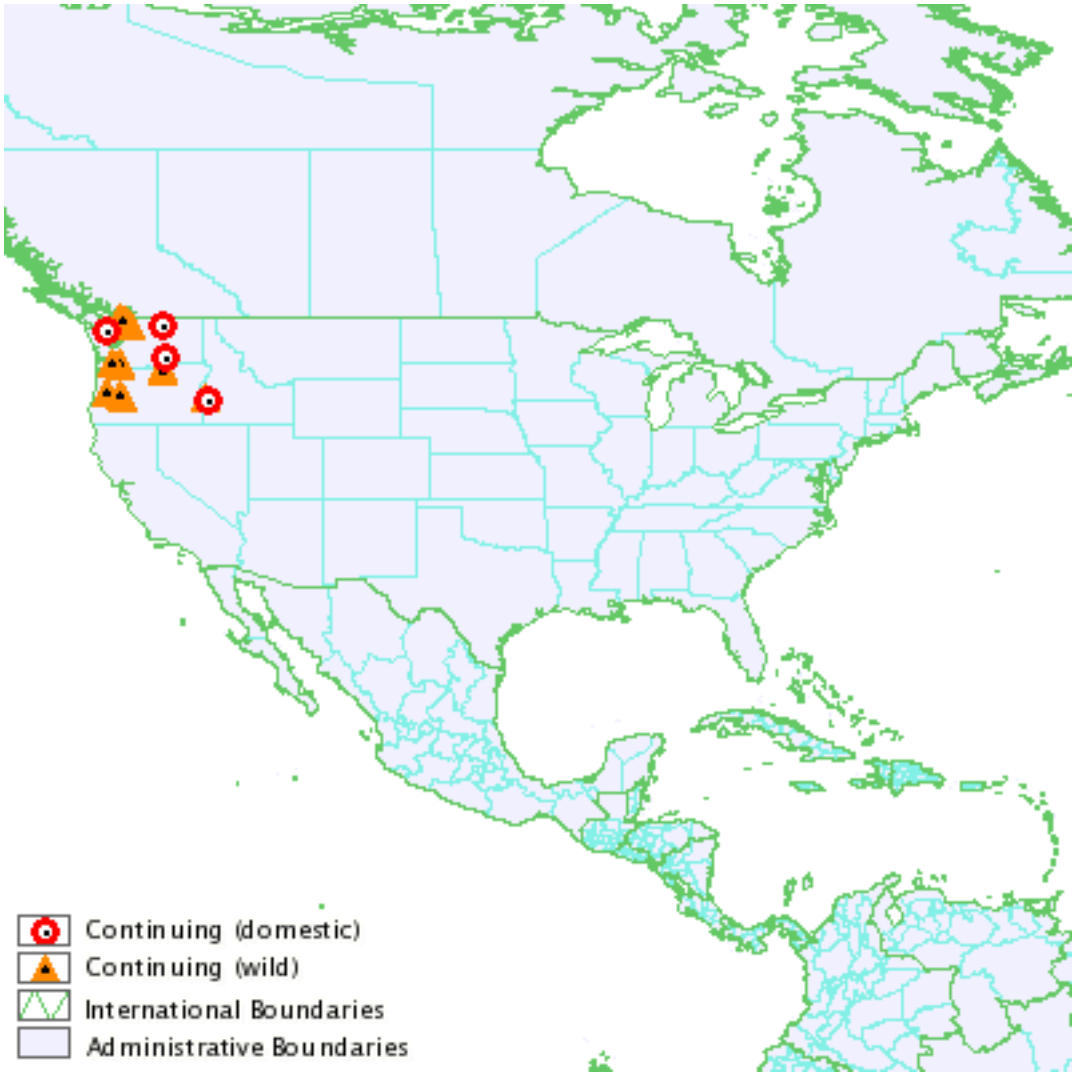
Applied	To be applied
• stamping out • quarantine • movement control inside the country • zoning • disinfection of infected premises/establishment(s)	• no planned control measures
Animals treated	**Vaccination Prohibited**
No	Yes

Diagnostic test results

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)	09/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	virus sequencing	09/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	virus sequencing	03/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	03/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Northern Pintail	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Northern Pintail	virus sequencing	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	virus sequencing	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Mallard	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Northern Shoveler	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Northern Shoveler	virus sequencing	02/02/2015	Positive
National laboratory	National Veterinary Services Laboratories (NVSL)	Wood Duck	virus sequencing	02/02/2015	Positive

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Veterinary Services Laboratories (NVSL)	Wood Duck	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	02/02/2015	Positive

Future Reporting

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

Outbreak maps