

Follow-up report No.2

Report reference: , Reference OIE : 18366, Report Date : 10/08/2015, Country : Russia

Report Summary

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Animal type	Terrestrial	Date of report	10/08/2015
Disease	Highly pathogenic avian influenza	Date of start of the event	10/05/2015
Causal Agent	Highly pathogenic avian influenza virus	Date of confirmation of the event	09/06/2015
Serotype(s)	H5N1	Date of last occurrence	27/04/2015
Reason	Reoccurrence of a listed disease	Diagnosis	Laboratory (basic), Laboratory (advanced)
Country or zone	a zone or compartment	Clinical signs	Yes
Number of reported outbreaks	submitted= 2, Draft= 0		

Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
ZABAJKAL`SKIJ KRAY- (this report - submitted)	-	Chitinsky		Natural park	Ivanovo-Arakhleisky	51.985	112.564	10/05/2015	06/08/2015
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Whooper Swan:Anatidae(Cygnus cygnus)	Animals	...	1	1	0	0			
Affected Population									

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
RESPUBLIKA TYVA-other report - submitted	-	Ovyursky		Not applicable	Ubsu-Nur	50.6512	93.0448	28/05/2015	10/06/2015
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Great Crested Grebe:Podicipedidae(Podiceps cristatus)	Animals	...	2	2	0	0			
Common Tern:Laridae(Sterna hirundo)	Animals	...	2	2	0	0			
Affected Population									

Outbreak summary: Total outbreaks = 2 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Whooper Swan		1	1	0	0
Great Crested Grebe		2	2	0	0
Common Tern		2	2	0	0

Epidemiology

Epidemiological comments

Epidemiological comments
Source of the outbreak(s) or origin of infection
<ul style="list-style-type: none"> • Contact with wild species • Unknown or inconclusive
As part of AI monitoring, samples from a whooper swan at Ingren Lake in the Chitinsky Raion of the Zabaykalsky Krai on May 10, 2015 were analysed. Real-time RT-PCR showed H5N1 avian influenza A virus genome to be present in a sample of internal organs. The haemmagglutinin cleavage site of this virus includes several basic amino acids and has – SPQRERRRKR – structure which allows this virus to be characterized as highly virulent. The comparative analysis of the obtained nucleotide sequence of the H gene fragment showed that the tested isolate belonged to an Asian lineage of highly pathogenic avian influenza (lineage A/Guangdong/1/96 lineage, clade 2.3.2.1) and was most similar to type A H5N1 HPAIV isolates recovered in the Tyva Republic in May, 2015 (98,83-100% identity), in the Altay Krai in 2014 (98,83% identity), in the Astrakhan Oblast in April, 2015 (98,44% identity) and in Vietnam and China over the period from 2012 to 2014 (98.44-98.04% identity).
Source of the outbreak(s) or origin of infection
<ul style="list-style-type: none"> • Contact with wild species • Unknown or inconclusive

Measures applied

Applied	To be applied
<ul style="list-style-type: none"> • control of wildlife reservoirs • movement control inside the country • screening 	<ul style="list-style-type: none"> • no planned control measures
Animals treated	Vaccination Prohibited
No	No

Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	All-Russian Research Institute for Animal Health (FGBI-ARRIAH)	Whooper Swan	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	06/08/2015	Positive
National laboratory	All-Russian Research Institute for Animal Health (FGBI-ARRIAH)	Whooper Swan	virus isolation	06/08/2015	Positive
National laboratory	All-Russian Research Institute for Animal Health (FGBI-ARRIAH)	Whooper Swan	virus sequencing	06/08/2015	Positive
National laboratory	All-Russian Research Institute for Animal Health (FGBI-ARRIAH)	Whooper Swan	haemagglutination inhibition test (HIT)	06/08/2015	Positive

Future Reporting

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

Outbreak maps

