

Follow-up report No.: 3

Report reference: , OIE Ref: 5209, Report Date: 20/10/2005, Country: Romania

Report Summary

Disease	Highly pathogenic avian influenza	Animal type	Terrestrial
Causal Agent	Highly pathogenic avian influenza virus	Serotype(s)	H5N1
Clinical Signs	Yes	Reason	Reoccurrence of a listed disease
Date of confirmation of Event	07/10/2005	Date of Start of Event	04/10/2005
Date of report	20/10/2005	Diagnosis	Clinical, Laboratory (advanced), Necropsy
Date of last occurrence	1942	Number of reported outbreaks	Submitted= 7, Draft= 0
Name of Sender of the report	Mr Gabriel Predoi	Address	Autorité Nationale Sanitaire Vétérinaire BUCAREST
Position		Telephone	(40-21) 315 78 75
Fax	(40-21) 312 49 67	Email	predoi@ansv.ro
Entered by	Mme Margarita Alonso		

Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
TULCEA	Caraorman		Farm	Caraorman 1	45,08	29,4	15/11/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	28	1	0	28	0		
Affected Population		25 laying hens and 3 ducks						

Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
TULCEA	Caraorman		Farm	Caraorman	45,08	29,4	15/11/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	36	2	1	35	0		
Affected Population		14 laying hens, 13 geese, 7 ducks and 2 turkeys						

Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
CONSTANTA	Mihai Viteazu		Village	River Danube, in the vicinity of Vadu-Oii village	44,73	27,88	10/10/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	...	3	3		

Affected Population
2 geese and 1 swan.
The birds were found dead in an unpopulated area, at a distance of about 1 km from the River Danube, close to Vadu-Oii locality; the birds may have belonged to a flock of migratory birds.

Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
VASLUI	Falciu		Village	Falciu	46,29	28,13	21/10/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	...	1	1		

Affected Population
a heron was found dead in an unpopulated area, at a distance of about 700 m from Prut River, close to the international border with Moldavia; the heron may have belonged to a flock of migratory birds.

Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
TULCEA	Ceamurlia-de-Jos		Village	Ceamurlia-de-Jos	44,75	28,71	04/10/2005	20/10/2005
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	100	36	36	64	0		

Affected Population	58 laying hens and 42 ducks in a single backyard farm
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Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
TULCEA	Maliuc		Farm	Vultur	45,17	29,08	07/10/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	48	18	18	30	0		

Affected Population	46 hens and 2 turkey hens (backyard flock)
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Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
TULCEA	Maliuc		Village	Maliuc	45,17	29,08	07/10/2005	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	537	137	137	0	0		

Affected Population	swans
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Outbreak summary: Total outbreaks = 7 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	212	57	55	157	0
Wild species	537	141	141	0	0

Epidemiology

Epidemiological comments
Information about the outbreaks:

- In the Maliuc and Vulturru outbreaks, stamping-out activities have been completed; a total of 3,562 domestic poultry were killed and their carcasses destroyed.
- The outbreak in Ceamurlia-de-Jos was eradicated. A total of 18,626 domestic poultry were killed and their carcasses incinerated, and disinfection was carried out. Measures have been taken to protect the human population.

Information about diagnostic tests performed at VLA Weybridge:

- 1 allantoic fluid sample from chicken and 1 allantoic fluid sample from duck

The haemagglutinin (HA) and neuraminidase (NA) genes of the influenza A virus subtype H5N1 isolated from the duck are 100% identical to those of the virus from the chicken. Molecular phylogeny indicates that the NA gene of both viruses is identical to that of the H5N1 highly pathogenic avian influenza virus strain A/turkey/Turkey/1/05 and therefore, as for the HA gene, is closely related to viruses detected recently in Central Asia.

- Sample 1: allantoic fluid from a swan (ex tracheal swab); sample 2: allantoic fluid from a chicken (ex tracheal swab)

The haemagglutinating agents received (both samples 1 and 2) have been confirmed as influenza A subtype H5N1. Both viruses contain multiple basic amino acids at the cleavage site (PQGERRRKKRGLF) of the haemagglutinin gene and therefore contain a sequence consistent with highly pathogenic avian influenza. Molecular phylogeny indicates that the HA gene of samples 1 and 2 is most similar to that of A/grebe/Novosibirsk/05 (99.2% identity) and identity between samples 1 and 2 is 99.8%. The results indicate a direct relationship with viruses detected elsewhere in Romania, Turkey and Central Asia.

Source of Infection	• Contact with wild Species
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Control Measures

Applied	<ul style="list-style-type: none"> • Movement control inside the country • Screening • Disinfection of infected premises/establishment(s) • Dipping / Spraying • Stamping out • Zoning 	To be applied	• Control of wildlife reservoirs
		Vaccination Prohibited	No
Animals treated	No		

Country / Zone

Country or zone	the whole country
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Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
OIE's Reference Laboratory	VLA Weybridge (United Kingdom)	Birds	virus sequencing	16/10/2005	Positive
National laboratory	Institute for Diagnostics and Animal Health (National Reference Laboratory)	Birds	pathogen isolation by egg inoculation	10/10/2005	Positive
National laboratory	Institute for Diagnostics and Animal Health (National Reference Laboratory)	Birds	enzyme-linked immunosorbent assay (ELISA)	07/10/2005	Positive
National laboratory	Institute for Diagnostics and Animal Health (National Reference Laboratory)	Birds	agar-gel immunodiffusion (AGID)	07/10/2005	Positive

Future Reporting

What further reports will be submitted in relation to this event?
There are 6 outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.

Outbreak map

