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### HIGHLY PATHOGENIC AVIAN INFLUENZA IN UKRAINE Follow-up report No. 2

Information received on 23 December 2005 from Dr Petr I. Verbytskyi, Head, State Department for Veterinary Medicine, Ministry of Agricultural Policy, Kiev:

**End of previous report period:** 10 December 2005 (see *Disease Information*, **18** [50], 506, dated 16 December 2005).

**End of this report period:** 21 December 2005.

**Identification of agent:** highly pathogenic avian influenza virus subtype H5N1.

**Date of first confirmation of the event:** 2 December 2005.

**Date of start of the event:** 25 November 2005.

**Nature of diagnosis:** clinical, post-mortem and laboratory.

#### Updated data on outbreaks reported previously:

First administrative division	Lower administrative division (district)	Type of epidemiological unit	Name of the location	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals in the outbreaks				
								susceptible	cases	deaths	destroyed	slaughtered
Crimea*	Dzhankoyskiy	village	Pushkino	45° 50' N	34° 24' E	25 Nov. 2005	avi	1,800	63	63	1,502	0
Crimea*	Dzhankoyskiy	village	Zavet-Leninskoe	45° 51' N	34° 24' E	25 Nov. 2005	avi	4,222	389	389	1,737	0
Crimea*	Feodosiya	village	Primorske**	45° 32' N	35° 30' E	9 Dec. 2005	avi	...	1	1	0	0
Crimea*	Nizhnegorskiy	village	Akimivka	45° 30' N	34° 51' E	7 Dec. 2005	avi	5,513	14	14	5,499	0
Crimea*	Nizhnegorskiy	village	Izobilnoe	45° 35' N	34° 58' E	25 Nov. 2005	avi	3,800	345	345	6,096	0
Crimea*	Nizhnegorskiy	village	Khlebnoye**	45° 24' N	34° 52' E	7 Dec. 2005	avi	3,367	1	1	0	0
Crimea*	Nizhnegorskiy	village	Kirsanovka	45° 29' N	34° 51' E	7 Dec. 2005	avi	1,624	4	4	0	0
Crimea*	Nizhnegorskiy	village	Yemelyanovka	45° 31' N	34° 55' E	25 Nov. 2005	avi	4,000	265	265	3,735	0
Crimea*	Nizhnegorskiy	village	Zorkino	45° 33' N	34° 42' E	7 Dec. 2005	avi	4,872	6	6	4,215	0

**Updated data on outbreaks reported previously (contd):**

First administrative division	Lower administrative division (district)	Type of epidemiological unit	Name of the location	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals in the outbreaks				
								susceptible	cases	deaths	destroyed	slaughtered
Crimea*	Sovetskiy	village	Chornozemne	45° 24' N	34° 48' E	7 Dec. 2005	avi	3,923	22	22	2,547	0
Crimea*	Sovetskiy	village	Dmytrivka	45° 29' N	35° 04' E	7 Dec. 2005	avi	8,100	26	26	6,224	0
Crimea*	Sovetskiy	village	Krasnoflotske	45° 22' N	34° 57' E	7 Dec. 2005	avi	5,500	4	4	3,507	0
Crimea*	Sovetskiy	village	Nekrasovka	45° 27' N	35° 00' E	25 Nov. 2005	avi	6,076	1,210	1,210	4,866	0
Crimea*	Sovetskiy	village	Sovetske	45° 20' N	34° 55' E	7 Dec. 2005	avi	1,503	1	1	2,821	0

\* Autonomous Republic of Crimea

\*\* In locations marked with \*\*, clinical disease was reported in poultry. Laboratory tests are being conducted simultaneously at the Republic Laboratory of Veterinary Medicine of the Autonomous Republic of Crimea, Simferopol, and at the Central State Laboratory of Veterinary Medicine, Kiev.

A total of 20,256 birds were destroyed around the outbreaks.

**Invalidation of a suspected outbreak:**

Laboratory tests of 14 and 18 December 2005 showed negative results in samples from Simferopol district (suspected outbreak reported in Follow-up report No. 1).

**New outbreaks:**

First administrative division	Lower administrative division (district)	Type of epidemiological unit	Name of the location	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals in the outbreaks				
								susceptible	cases	deaths	destroyed	slaughtered
Crimea*	Chernomorskiy	village	Chernomorskiy	...	...	13 Dec. 2005	avi	5,708	3	3	63	0
Crimea*	Chernomorskiy	village	Khmelevo	...	...	13 Dec. 2005	avi	1,459	5	5	4	0
Crimea*	Chernomorskiy	village	Maryino**	...	...	13 Dec. 2005	avi	604	5	5	0	0
Crimea*	Krasnoperekopskiy	village	Krasnoperekopsk**	...	...	12 Dec. 2005	avi	...	12	12	0	0
Crimea*	Krasnoperekopskiy	village	Krepkoye	...	...	18 Dec. 2005	avi	...	7	7	0	0
Crimea*	Sovetskiy	village	Prisivashnoye	...	...	15 Dec. 2005	avi	2,257	15	15	1,298	0
Crimea*	Sovetskiy	village	Razdolnoye**	...	...	16 Dec. 2005	avi	5,037	1	1	0	0
Crimea*	Sovetskiy	village	Urozhaynoye	...	...	...	avi	6,924	no clinical cases	0	4,267	0
Crimea*	Sovetskiy	village	Zavetnoye**	...	...	10 Dec. 2005	avi	13,160	10	10	0	0

\* Autonomous Republic of Crimea

\*\* In locations marked with \*\*, clinical disease was reported in poultry. Laboratory tests are being conducted simultaneously at the Republic Laboratory of Veterinary Medicine of the Autonomous Republic of Crimea, Simferopol, and at the Central State Laboratory of Veterinary Medicine, Kiev.

**Diagnosis:**

<i>Laboratories where diagnostic tests were performed</i>	<i>Samples examined</i>	<i>Diagnostic tests used</i>	<i>Date</i>	<i>Results</i>
Federal Centre for Animal Health (FGI-ARRIAH), Russia	samples from chickens, turkeys, ducks and geese	influenza A antigen capture test strip	12 Dec. 2005	Detection of avian influenza virus type A in 7 samples.
		PCR <sup>(1)</sup> for H, N and M genes		Detection of avian influenza virus subtype H5N1.
		haemagglutination inhibition test using reference antisera to H5/N7		Negative.
		virus isolation in 11 SPF <sup>(2)</sup> embryonated eggs		Death of embryos was registered in 48 hours. Extraembryonic fluid of 8 samples contained haemagglutinating agent with titres from 1:8 to 1:1024.
		molecular sequencing		Cleavage site sequence: RERRRKKRGLF Comparative analysis of a sequence length of HA gene showed a relationship to isolates 2003-2005, lineage A/Bar-headedGoose/Qinghai/12/05 detected in South-East Asia.
VLA–Weybridge, United Kingdom, OIE Reference Laboratory for avian influenza	samples from chickens and ducks	virus isolation in embryonated eggs	19 Dec. 2005	Samples from Sovetskiy district (chicken) and Dzhankoy district (chickens and duck) produced haemagglutinating agents, identified as avian influenza A subtype H5N1.
		RT-PCR <sup>(3)</sup>		Sequences are: PQGERRRKKRGLF. Closest related to isolates from current outbreaks in Novosibirsk, Russia, and Qinghai, People's Republic of China.

**Source of outbreaks or origin of infection:** contact with wild birds.

**Control measures undertaken:**

- control of wildlife reservoirs;
- stamping out;
- quarantine;
- movement control inside the country;
- screening;
- zoning;
- disinfection of infected premises/establishments.

**Vaccination prohibited:** yes.

**Final report:** no.

(1) PCR: polymerase chain reaction

(2) SPF: specific pathogen-free

(3) RT-PCR: reverse transcriptase – polymerase chain reaction

**HIGHLY PATHOGENIC AVIAN INFLUENZA IN UKRAINE**  
**Follow-up report No. 3**

*Translation of information received on 26 December 2005 from Dr Petr I. Verbytskiy, Head, State Department for Veterinary Medicine, Ministry of Agricultural Policy, Kiev:*

**End of previous report period:** 21 December 2005 (see *Disease Information*, **18** [52], 535, dated 30 December 2005).

**End of this report period:** 26 December 2005.

The State Veterinary Services of the Autonomous Republic of Crimea, in collaboration with local authorities, have formed 146 groups to perform clinical examination of backyard poultry throughout the territory of the Autonomous Republic of Crimea.

Between 5 and 25 December 2005, 311,075 holdings in 2,809 villages were inspected (4,471,688 birds of different species).

***New suspected outbreaks:***

First administrative division	Lower administrative division (district)	Type of epidemiological unit	Name of the location	Date of start of the outbreak	Species	Number of animals in the suspected outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Crimea*	Alushta	village	Privetnoye	...	avi	...	...	5	...	...
Crimea*	Belogorskiy	village	Vasilyevka	...	avi	...	...	13	...	...
Crimea*	Nizhnegorskiy	village	Nezhinskoye	...	avi	...	...	3	...	...
Crimea*	Sudak	village	...	...	avi	...	...	3	...	...

\* Autonomous Republic of Crimea

**Situation as of 26 December 2005, at 6 a.m.**

As of 26 December 2005, at 6 a.m., the National Veterinary Service of the Autonomous Republic of Crimea, in cooperation with services of the Ministry of Emergencies, had taken measures to eradicate outbreaks as indicated in the table below:

First administrative division	District	Village	Number of holdings			Number of birds destroyed by burning
			examined	disinfected		
				initial disinfection	repeated disinfection	
Crimea*	Chernomorskiy	Chernomorskoye	9	9	9	63
Crimea*	Chernomorskiy	Khmelevo	6	6	6	4
Crimea*	Nizhnegorskiy	Akimovka	492	492	492	11,119
Crimea*	Nizhnegorskiy	Zorkino	468	468		4,432
Crimea*	Sovetskiy	Chernozyomnoye	358	358		2,547
Crimea*	Sovetskiy	Dmitrovka	393	393	393	6,224
Crimea*	Sovetskiy	Krasnoflotskoye	360	360		3,507
Crimea*	Sovetskiy	Prisivashnoye	119	119	119	1,298
Crimea*	Sovetskiy	Sovetskoye	2,500	757		2,821
Crimea*	Sovetskiy	Urozhaynoye	391	391	391	4,276
<b>Total</b>			5,096	3,353	1,410	36,291

\* Autonomous Republic of Crimea

Final disinfection has been completed in the following villages:

- Pushkino, Zavet-Leninskiy (Dzhankoyskiy district);
- Akimovka, Izobilnoye (Nizhnegorskiy district);
- Dmitrovka, Nekrasovka, Prisivashnoye, Urozhaynoye (Sovetskiy district).

As of 26 December 2005, at 6 a.m., a total of 69,662 poultry had been seized and destroyed in the affected villages, according to data provided by the Ministry of Emergencies.

The total number of quarantine posts on the territory of the affected districts is 26 (10 posts in Sovetskiy district, 7 posts in Nizhnegorskiy district, 4 posts in Chernomorskiy district, 3 posts in Dzhankoyiski district, and 2 posts in Krasnoperekopskiy district).

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### NEWCASTLE DISEASE IN TURKEY Follow-up report No. 1 (final report)

*Information received on 26 December 2005 from Dr Nihat Pakdil, General Director of Protection and Control, Ministry of Agriculture and Rural Affairs, Ankara:*

**End of previous report period:** 6 December 2005 (see *Disease Information*, **18** [49], 502, dated 9 December 2005).

**End of this report period:** 22 December 2005.

**Date of first confirmation of the event:** 16 November 2005.

**Date of start of the event:** 12 November 2005.

#### **Details of outbreak (corrected data):**

First administrative division	Lower administrative division	Type of epidemiological unit	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreak				
						susceptible	cases	deaths	destroyed	slaughtered
Ankara	Polatli	village	Gumusyaka	12 Nov. 2005	avi	540*	280	280	260	0

\* 430 hens and 110 turkeys

**Source of outbreak or origin of infection:** introduction of new animals/animal products.

#### **Control measures undertaken:**

- stamping out;
- quarantine;
- movement control inside the country;
- zoning;
- disinfection of infected premises/establishments.

#### **Other details/comments:**

- In this outbreak, a total of 280 birds died (230 hens and 50 turkeys) and the remaining 260 birds (200 hens and 60 turkeys) were culled. All carcasses were buried the same day with lime in two pits dug *in situ*.
- Clinical surveillance was carried out in the outbreak zone.
- Biosecurity measures were increased.
- Public awareness was raised and training sessions were conducted.

**Final report:** yes.

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## AVIAN INFLUENZA IN TURKEY

### IMMEDIATE NOTIFICATION REPORT

Information received on 27 December 2005 from Dr Nihat Pakdil, General Director of Protection and Control, Ministry of Agriculture and Rural Affairs, Ankara:

**Report date:** 27 December 2005.

**Reason for immediate notification:** re-occurrence of a listed disease or infection in a country or zone/compartiment following a report declaring the outbreak(s) ended.

**Identification of agent:** avian influenza virus subtype H5.

**Date of first confirmation of the event:** 26 December 2005.

**Date of start of the event:** 15 December 2005.

**Clinical disease:** yes.

**Nature of diagnosis:** clinical and laboratory.

### Details of outbreak:

First administrative division	Lower administrative division	Type of epidemiological unit	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreak				
						susceptible	cases	deaths	destroyed	slaughtered
Igdir province	Aralık	village	Köprüler	15 Dec. 2005	avi	1,559	1,200	1,200	359	0

**Description of affected population:** the outbreak occurred in four backyard flocks which included chickens, geese, turkeys and ducks. Dead birds were generally over one year old.

### Diagnosis:

Laboratory where diagnostic tests were performed	Species examined	Diagnostic tests used	Date	Results
Bornova Veterinary Control and Research Institute (national reference laboratory)	chickens and ducks	rapid test	23 Dec. 2005	positive
		- virus isolation; - haemagglutination test.	26 Dec. 2005	positive
		haemagglutination inhibition test	26 Dec. 2005	H5

**Source of outbreak or origin of infection:** under investigation.

### Control measures undertaken:

- Stamping out policy. A total of 359 poultry (215 chickens, 80 ducks, 35 geese and 29 turkeys) kept outdoors were culled, with compensation for the owners. All carcasses were buried with lime in three pits dug *in situ*.
- Quarantine.
- Movement control inside the country.
- Disinfection of infected premises/establishments.
- National and Local Disease Control Centres were activated.
- Protection and surveillance zones were established.
- Clinical surveillance has been continued.
- Biosecurity measures have been increased.
- Public awareness is being raised and training sessions are being conducted.

**Vaccination prohibited:** yes.

**Other details/comments:**

- There are no poultry flocks within the 3-km-radius zone around the outbreak.
- Igdir province is situated in the eastern part of Turkey. The region is on one of the main routes for migratory birds passing through Anatolia.
- The outbreak is 7 km from the border with Armenia, 15 km from the border with Iran, and 40 km from the border with the Nakhichevan Autonomous Republic, Azerbaijan.

**Final report:** no.

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**HIGHLY PATHOGENIC AVIAN INFLUENZA IN RUSSIA  
Follow-up report No. 5**

*Information received on 27 December 2005 from Dr Evgueny A. Nepoklonov, Head of the Main Veterinary Department, Ministry of Agriculture and Food, Moscow:*

**End of previous report period:** 19 October 2005 (see *Disease Information*, **18** [42], 364, dated 21 October 2005).

**End of this report period:** 22 December 2005.

**Identification of agent:** highly pathogenic avian influenza (HPAI) virus subtype H5N1 (see 'Diagnosis' – below).

**Date of first confirmation of the event:** 23 July 2005.

**Date of start of the event:** 18 July 2005.

**Nature of diagnosis:** clinical, post-mortem and laboratory.

Up to 22 December 2005, a total of 62 sites in 10 regions were confirmed as having been infected with HPAI virus.

During the current reporting period, two outbreaks of HPAI were registered in wild birds (swans), one in Kalmykia Republic and the other in Astrakhan Region. The dates of confirmation of diagnosis and identification of the infectious agent as H5N1 at the Federal Centre for Animal Health (ARRIAH) were 7 December 2005 and 12 December 2005, respectively. Restriction measures were implemented in villages located close to migratory stations of waterfowl to prevent the spread of the virus to poultry.

In poultry (backyards), no further outbreaks occurred after 28 October 2005. Restrictions have been lifted in all areas, with the exception of one poultry farm in Kurgan region. As soon as the outbreak at this farm was suspected, movement restrictions were implemented. Laboratory tests at the ARRIAH confirmed the outbreak as HPAI on 8 October 2005. All birds in the infected farm were destroyed in 10 days. No birds have been kept on the farm since 20 October 2005. Cleaning and disinfection of the affected premises and territory are still in progress due to the large size of the farm. Quarantine has not yet been lifted.

**Summary of outbreaks by first administrative division:**

<i>First administrative division</i>	<i>Total number of affected sites</i>			<i>Number of animals in the outbreaks</i>		
	<i>Having been under restriction</i>	<i>Cleaned up (restrictions lifted)</i>	<i>Still under restriction</i>	<i>susceptible</i>	<i>deaths</i>	<i>destroyed</i>
Altai Territory (Altayskiy kray)	10	10	0	150,591 (112,791 chickens, 18,387 ducks, 17,661 geese, 1,443 turkeys, 250 quails, 59 Muscovy ducks)	1,915 (1,149 chickens, 413 geese, 338 ducks, 13 turkeys, 2 quails)	9,724 (7,893 chickens, 737 geese, 466 turkeys, 380 ducks, 248 quails)
Astrakhan Region (Astrakhanskaya oblast)	1	0	1	Approx. 15,000 (wild swans)	558 (wild swans)	558 (wild swans)
Chelyabinsk Region (Chelyabinskaya oblast)	7	7	0	45,165 (31,012 chickens, 9,841 ducks, 3,830 geese, 194 turkeys, 288 others)	960 (630 chickens, 175 ducks, 86 geese, 69 turkeys)	1,708 (1,028 chickens, 360 ducks, 294 geese, 26 turkeys)
Kalmykia Republic	1	0	1	Approx. 220 (wild swans)	186 (wild swans)	186 (wild swans)
Kurgan Region (Kurganskaya oblast)	9	8	1	484,579 (475,720 chickens, 5,057 ducks, 3,802 geese)	13,505 (12,948 chickens, 347 geese, 210 ducks)	454,027 (453,574 chickens, 282 ducks, 171 geese)
Novosibirsk Region (Novosibirskaya oblast)	15	15	0	19,421 (9,691 chickens, 5,834 ducks, 3,557 geese, 339 others)	2,778 (1,182 chickens, 932 ducks, 497 geese, 167 others)	80,771 (53,060 chickens, 17,320 ducks, 9,499 geese, 892 others)
Omsk Region (Omskaya oblast)	8	8	0	36,330 (27,920 chickens, 5,642 ducks, 2,512 geese, 256 turkeys)	1,389 (709 chickens, 250 ducks, 196 geese, 103 guinea-fowl, 31 turkeys, 100 wild ducks)	9,965 (7,081 chickens, 1,986 ducks, 895 geese, 3 turkeys)
Tambov Region (Tambovskaya oblast)	2	2	0	152 (129 chickens, 11 geese, 10 ducks, 2 turkeys)	26 (22 chickens, 4 ducks)	126 (107 chickens, 11 geese, 6 ducks, 2 turkeys)
Tiumen Region (Tyumenskaya oblast)	8	8	0	47,225 (35,727 chickens, 8,596 ducks, 2,902 geese)	428 (171 chickens, 235 ducks, 22 geese)	29,284 (21,539 chickens, 5,901 ducks, 1,844 geese)
Tula Region (Tul'skaya oblast)	1	1	0	2,506 (1,771 chickens, 244 geese, 221 ducks, 179 turkeys, 91 Muscovy ducks)	270 (171 chickens, 46 turkeys, 37 geese, 13 Muscovy ducks, 3 ducks)	2,236 (1,600 chickens, 218 ducks, 207 geese, 133 turkeys, 78 Muscovy ducks)
<b>Total</b>	<b>62</b>	<b>59</b>	<b>3</b>	<b>800,969</b> (694,761 chickens, 53,588 ducks, 34,519 geese, 2,074 turkeys, 250 quails, 150 Muscovy ducks, 627 other poultry, approx. 15,220 wild swans)	<b>22,015</b> (16,982 chickens, 2,147 ducks, 1,598 geese, 159 turkeys, 103 guinea-fowl, 13 Muscovy ducks, 2 quails, 167 other poultry, 744 wild swans, 100 wild ducks)	<b>588,585</b> (545,882 chickens, 26,453 ducks, 13,658 geese, 630 turkeys, 248 quails, 78 Muscovy ducks, 892 other poultry, 744 wild swans)



**Diagnosis:**

<i>Laboratories where diagnostic tests were performed</i>	<i>Diagnostic tests used</i>	<i>Dates</i>
Federal Centre for Animal Health (FGI-ARRIAH), Vladimir (national reference laboratory for avian influenza)	- PCR <sup>(1)</sup> ; - sequencing of HA cleavage site; - virus isolation; - haemagglutination test (HA); - haemagglutination inhibition test (HI); - ELISA <sup>(2)</sup> ; - antigen detection (influenza A antigen capture test strip).	22 July 2005 – 12 Dec. 2005
All-Russia State Research Institute for Control, Standardisation and Certification of Veterinary Preparations, Moscow (FGI-VGNCI)	- PCR <sup>(1)</sup> ; - HA; - HI.	
The State Scientific Centre for Virology and Biotechnology, Novosibirsk ('NPC Vector')	- PCR <sup>(1)</sup> ; - sequencing of HA cleavage site; - virus isolation; - HA; - HI.	
Novosibirsk Inter-Regional Veterinary Laboratory (FGI-NIVL)	- PCR <sup>(1)</sup> ; - ELISA <sup>(2)</sup> ; - HI.	
Central Veterinary Research Laboratory, Moscow (CNIVL)	- PCR <sup>(1)</sup> ; - ELISA <sup>(2)</sup> ; - HI.	
Altay Territory Veterinary Laboratory (AKVL)	HI	
Tiumen Region Veterinary Laboratory (TOVL)	HI	
Chelyabinsk Inter-Regional Veterinary Laboratory (FGI-TIVL)	HI	
Saratov Inter-Regional Veterinary Laboratory	HI	

Molecular analysis of the haemagglutinin cleavage site of the virus showed the HPAI virus sequence **GERRRKKRGLF**. All cleavage site sequences from the current H5N1 outbreaks in Russia are identical.

Phylogenetic trees constructed with the Kitch program (PHYLIP v. 3.5) from fragments of nucleotides of the HA gene (801-1113 n) (see Fig. 1) and NA gene (605-937 n) (see Fig. 2) of Russian isolates of the year 2005 and isolates belonging to the line A/goose/Guangdong/1/96 H5N1 show sequence similarity with the A/Qinghai/05 H5N1 group of isolates.

Figure 1. Phylogenetic tree. HA gene

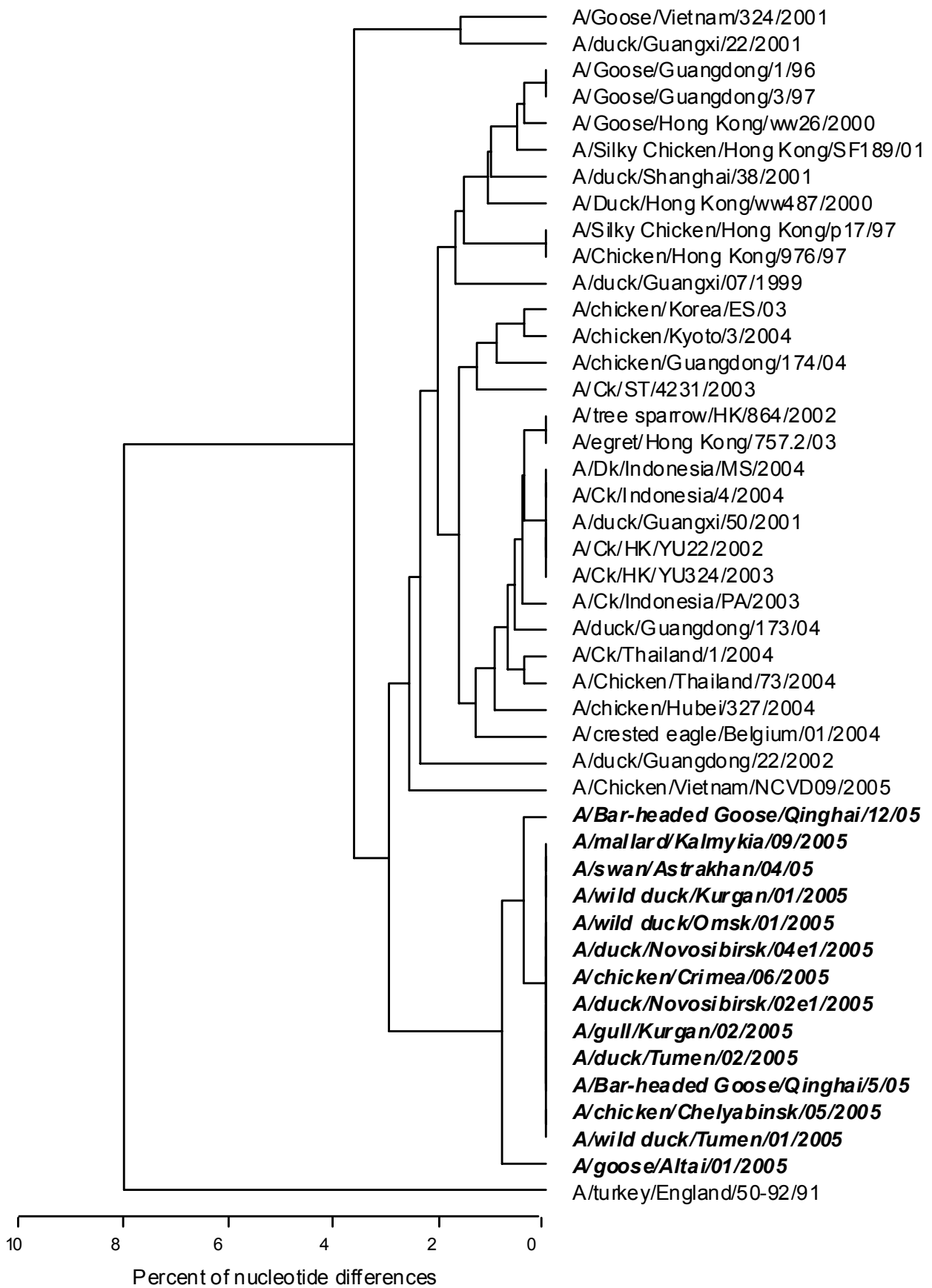
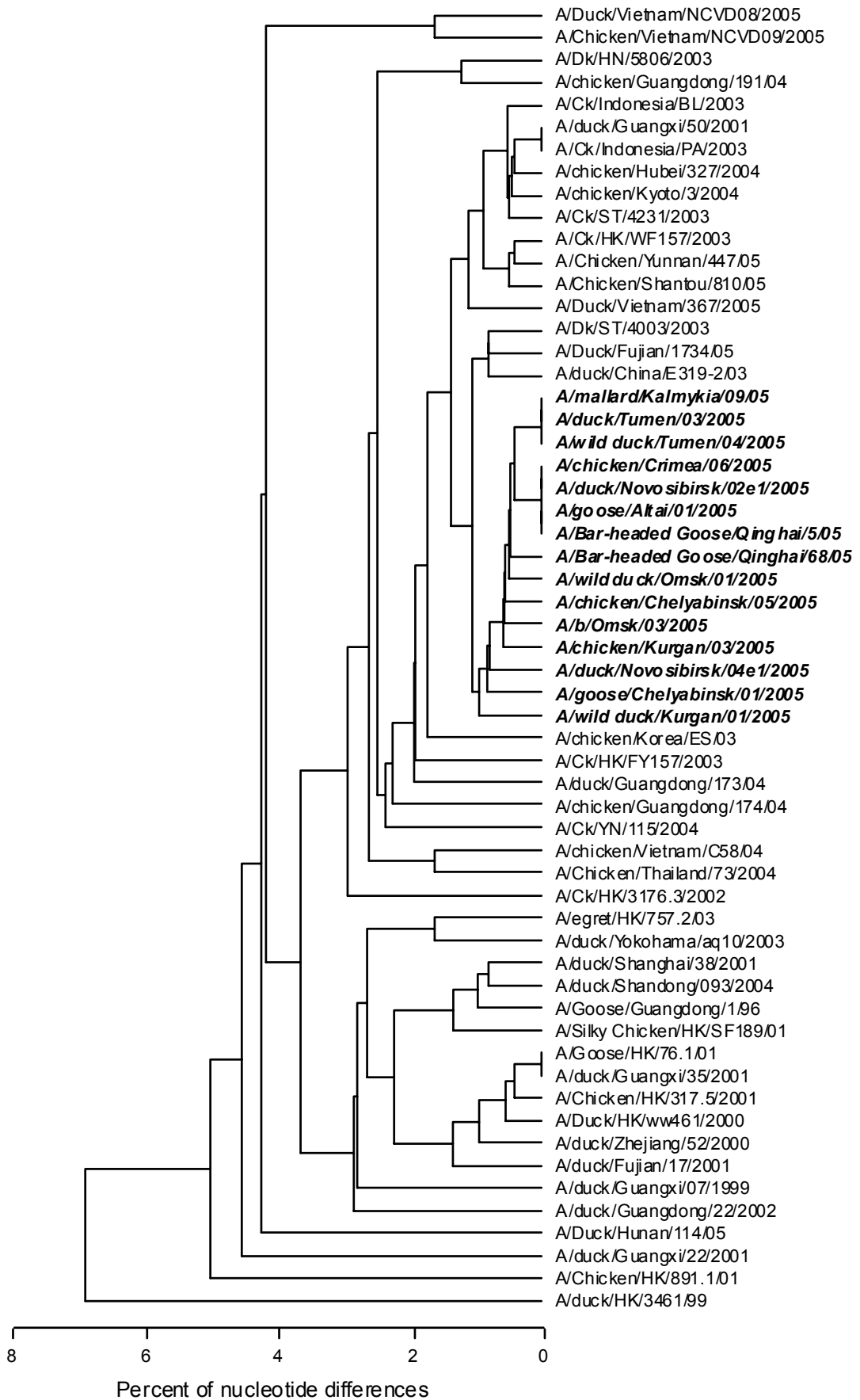


Figure 2. Phylogenetic tree. NA gene



**Control measures applied:**

- stamping out applied to all birds within the affected village/farm or a separate part of the affected village;
- movement restrictions;
- quarantine;
- disinfection.

**Vaccination prohibited:** yes.

(1) PCR: polymerase chain reaction

(2) ELISA: enzyme-linked immunosorbent assay

**Details of HPAI outbreaks by district:**

№	Affected area (district [d.], village [v.], lake, etc.,)	Diagnosis						Type of restriction measures (restrictions, quarantine)	
		Date of confirmation of diagnosis	Laboratory	Method used for diagnosis	Total number of birds in outbreak	No. of deaths	No. of birds destroyed	Date of implemen- tation	Date restriction measures lifted
<b>Altai Territory</b>									
1	Zavyalovsky d., v. Glubokoye	29.07.2005	FGI-NIVL	PCR	16,836	275	567	01.08.2005 (quarantine)	06.10.2005
2	Zavyalovsky d., v. Gonohovo	03.08.2005	FGI-NIVL	PCR	17,941	272	239	04.08.2005 (quarantine)	30.09.2005
3	Zavyalovsky d., v. Gilevka	17.08.2005	FGI-NIVL	PCR	10,100	17	34	18.08.2005 (quarantine)	30.09.2005
4	Mamontovsky d., v. Mamontovo	08.08.2005	FGI-NIVL	HI	8,900	773	8,127	08.08.2005 (quarantine)	No. 14 of 29.08.2005
5	Bayevsky d., v. Proslaukha	09.08.2005	FGI-NIVL	PCR	7,009	9	81	11.08.2005 (quarantine)	05.10.2005
6	Romanovsky d., v. Rassvet	09.08.2005	FGI-NIVL	PCR	2,850	25	90	11.08.2005 (quarantine)	01.10.2005
7	Romanovsky d., v. Guseletovo	09.08.2005	FGI-NIVL	PCR	15,635	54	32	11.08.2005 (quarantine)	No. 191 of 22.09.2005
8	Egoryevsky d., v. Titovka	15.08.2005	FGI-NIVL	PCR	17,828	364	315	15.08.2005 (quarantine)	30.09.2005
9	Voltchihinsky d., v. Solonovka	05.08.2005	AKVL	HI	9,876	175	98	03.08.2005 (restrictions)	No. 263 of 22.09.2005
10	Zavyalovsky d., v. Chistoozernoye	13.08.2005	AKVL	HI	18,244	2	11	13.08.2005 (restrictions)	No. 181 of 22.09.2005
11	Rubtsovsky d., v. 2nd Korostely	30.07.2005	AKVL	HI	2,600	183	116	02.08.2005 (restrictions)	27.09.2005
12	Khabarsky d., v. Khabary	23.07.2005	AKVL	HI	48,491	61	239	07.09.2005 (quarantine)	05.10.2005
13	Voltchikhinsky d., v. Voltchikha	07.10.2005	AKVL	HI	17,364	48	77	07.10.2005 (restrictions)	17.10.2005
14	Malyshevsky d., v. Malyshev Log	07.10.2005	AKVL	HI	13,020	17	37	07.10.2005 (restrictions)	17.10.2005
15	Bayevsky d., v. Pokrovka	21.10.2005	AKVL FGI-NIVL	HI PCR	5,001	65	...	21.10.2005 (restrictions)	14.11.2005
16	Novitchikhinsky d., v. Novitchikha	27.10.2005	AKVL FGI-NIVL	HI PCR-negative	15,625	42	132	26.10.2005 (restrictions)	21.11.2005
17	Tyumentsevsky d., v. Gryaznovo	28.10.2005	AKVL FGI-NIVL	HI PCR-negative	9,564	62	80	29.10.2005 (restrictions)	22.11.2005
<b>Astrakhan Region</b>									
1	The Volga delta area, hunting refuge "Astradelta"	7.12.2005 22.11.2005	FGI-ARRIAH Saratov Inter- Regional Veterinary Laboratory	PCR HI	approx. 15,000	558	558	23.11.2005 (restrictions)	
<b>Chelyabinsk Region</b>									
1	Oktaybrsky d., v. Oktyabrskoye	13.08.2005	FGI-TIVL, FGI-NIVL	HI, PCR	29,450	532	973	14.08.2005 (quarantine)	14.09.2005
2	Oktaybrsky d., v. Zhuravlinoye	17.08.2005	FGI-TIVL	HI	2,988	56	49	18.08.2005 (quarantine)	14.09.2005
3	Uvelsky d., v. MaloyeShumakovo	14.08.2005	FGI-TIVL, FGI-NIVL	HI, PCR	5,626	124	191	15.08.2005 (quarantine)	15.09.2005

4	Krasnoarmeysky d., v. Lugovoy	14.09.2005	FGI-TIVL	HI, PCR	5,109	44	194	14.09.2005 (quarantine)	07.10.2005
5	Troitsky d., v. Sunaly	20.10.2005	FGI-TIVL	HI, PCR	1,061	43	77	21.10.2005 (quarantine)	14.11.2005
6	Troitsky d., v. Sosnovka	03.11.2005	FGI-TIVL	HI	775	148	68	04.11.2005 (quarantine)	24.11.2005
7	Etkulsky d., v. Shatrovo	28.10.2005	FGI-CNIVL	PCR	156	13	156	31.10.2005 (quarantine)	07.11.2005
<b>Kalmykia Republic</b>									
1	Lagansky d., rural municipal enterprise "Krasinskoye"	12.12.2005	FGI-ARRIAH	PCR	approx. 220	186	186	15.12.2005 (quarantine)	
<b>Kurgan Region</b>									
1	Tchastoozersky d., v. Butyrino, Lake Akkul	04.08.2005	FGI-NIVL	HI, PCR	3,708	472	214	09.08.2005 (quarantine)	30.08.2005
2	Petukhovskiy d., v. Streltsy	04.08.2005	FGI-NIVL	HI, PCR	5,500	150	164	08.08.2005 (quarantine)	30.08.2005
3	Almenevskiy d., v. Uchkulyovo	11.08.2005	FGI-NIVL	HI, PCR	1,836	342	203	12.08.2005 (quarantine)	31.08.2005
4	Lebyazhevskiy d., v. Suerka	11.08.2005	FGI-NIVL	HI, PCR	706	6	56	17.08.2005 (quarantine)	30.08.2005
5	Kurtamyshevskiy d., v. Kloktukhino	11.08.2005	FGI-NIVL	HI, PCR	1,006	70	31	15.08.2005 (quarantine)	28.08.2005
6	Makhushinskiy d., v. Malaya Krivinka	11.08.2005	FGI-NIVL	HI, PCR	1,043	364	28	15.08.2005 (quarantine)	29.08.2005
7	Ketovskiy d., "Utyatskaya poultry farm" JSC	02.10.2005	TOVL	PCR	465,295	12,061	453,234	03.10.2005 (quarantine)	
8	Vargashinskiy d., v. Stroyevo	13.10.2005	TOVL	PCR	2,085	13	87	14.10.2005 (quarantine)	07.11.2005
9	Tselinny d., v. Stroyevo	24.10.2005	TOVL	PCR	3,400	27	10	14.10.2005 (quarantine)	14.11.2005
<b>Novosibirsk Region</b>									
1	Dovolensky d., v. Suzdalka	22.07.2005	FGI-ARRIAH, FGI-NIVL	PCR, HI, ELISA	...	617	17,022	22.07.2005 (quarantine)	22.09.2005
2	Dovolensky d., v. Ilyinka	24.07.2005	FGI-NIVL	PCR, HI, ELISA	7,577	299	709	24.07.2005 (quarantine)	09.09.2005
3	Dovolensky d., v. Baklushy	24.07.2005	FGI-NIVL	PCR, HI, ELISA	...	436	11,235	24.07.2005 (quarantine)	22.09.2005
4	Dovolensky d., v. Dovolnoye	22.07.2005	FGI-NIVL	HI	32,051	93	751	22.07.2005 (restrictions)	08.09.2005
5	Zdvinsky d., v. Alexeyevka	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	163	10,144	30.07.2005 (quarantine)	09.09.2005
6	Zdvinsky d., v. Gorkoye Ozero	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	95	2,830	30.07.2005 (quarantine)	09.09.2005
7	Zdvinsky d., v. Novo-Mikhailovka	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	123	960	30.07.2005 (quarantine)	09.09.2005
8	Zdvinsky d., v. Gorodische	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	84	4,904	30.07.2005 (quarantine)	09.09.2005
9	Zdvinsky d., v. Mikhailovka	10.08.2005	FGI-NIVL	HI	4,554	94	14	10.08.2005 (restrictions)	22.09.2005
10	Zdvinsky d., v. Novogornostaly	10.08.2005	FGI-NIVL	HI	1,170	3	...	10.08.2005 (restrictions)	22.09.2005
11	Zdvinsky d., v. Schelchikha	10.08.2005	FGI-NIVL	HI	2,700	40	...	10.08.2005 (restrictions)	22.09.2005
12	Zdvinsky d., v. Malandino	10.08.2005	FGI-NIVL	HI	6,050	11	133	10.08.2005 (restrictions)	22.09.2005
13	Zdvinsky d., v. Verkh-Ugryum	10.08.2005	FGI-NIVL	HI	5,000	3	...	10.08.2005 (restrictions)	22.09.2005
14	Chistoozerny d., v. Yaminka	25.07.2005	FGI-NIVL	PCR, HI, ELISA	1,660	10	...	25.07.2005 (quarantine)	09.09.2005
15	Chistoozerny d., v. Ishimskoye	25.07.2005	FGI-NIVL	PCR, HI, ELISA	5,864	21	...	25.07.2005 (quarantine)	09.09.2005
16	Chistoozerny d., v. Malaya Tokhta	25.07.2005	FGI-NIVL	PCR, HI, ELISA	2,330	21	13	25.07.2005 (quarantine)	22.09.2005
17	Chistoozerny d., v. Novokrasino	13.08.2005	FGI-NIVL	HI	7,123	2	141	13.08.2005 (restriction)	02.09.2005
18	Chistoozerny d., v. Yudino	03.08.2005	FGI-NIVL	HI	8,546	3	241	03.08.2005 (restrictions)	08.11.2005
19	Chistoozerny d., v. Elezavetinka	10.08.2005	FGI-NIVL	HI	6,434	...	102	10.08.2005 (restrictions)	02.09.2005
20	Chistoozerny d., v. Yablonevka	19.08.2005	FGI-NIVL	HI	5,110	2	90	19.08.2005 (restrictions)	03.09.2005

21	Kupinsky d., v. Vasilyevka	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	98	4,284	30.07.2005 (quarantine)	02.09.2005
22	Kupinsky d., v. Petrovka	30.07.2005	FGI-NIVL	PCR, HI, ELISA	1,990	136	...	30.07.2005 (quarantine)	23.09.2005
23	Kupinsky d., v. Novorosino	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	92	5,857	30.07.2005 (quarantine)	22.09.2005
24	Kupinsky d., v. Mal'kovo	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	206	5,120	30.07.2005 (quarantine)	02.09.2005
25	Kupinsky d., v. Kopkul	30.07.2005	FGI-NIVL	PCR, HI, ELISA	...	377	17,693	30.07.2005 (quarantine)	02.09.2005
26	Kupinsky d., v. Shaitik	08.08.2005	FGI-NIVL	HI	6,110	5	...	08.08.2005 (restrictions)	22.09.2005
27	Kupinsky d., v. Blagoveschenka	08.08.2005	FGI-NIVL	HI	11,590	...	233	08.08.2005 (restrictions)	17.10.2005
28	Kupinsky d., Kupino (town)	08.08.2005	FGI-NIVL	HI	5,090	175	210	08.08.2005 (restrictions)	21.11.2005
29	Kupinsky d., v. Kamyshino	08.08.2005	FGI-NIVL	HI	11,480	5	55	08.08.2005 (restrictions)	17.10.2005
30	Kupinsky d., v. Tyumenka	08.08.2005	FGI-NIVL	HI	3,215	46	975	08.08.2005 (restrictions)	29.09.2005
31	Kupinsky d., Kupino IPS	15.08.2005	FGI-NIVL	HI	5,000	239	4,542	15.08.2005 (restrictions)	21.11.2005
32	Ubinsky d., v. Ubinskoye	04.08.2005	FGI-NIVL	HI	21,938	104	366	04.08.2005 (restrictions)	12.09.2005
33	Karasuisky d., v. Gramotino	11.08.2005	FGI-NIVL	HI	3,183	99	154	11.08.2005 (restrictions)	07.09.2005
34	Karasuisky d., Karasuk (town)	12.08.2005	FGI-NIVL	HI	280,000	113	68	12.08.2005 (restrictions)	07.09.2005
35	Tatarsky d., Tatarsk (town)	11.08.2005	FGI-NIVL	HI	23,530	9	73	11.08.2005 (restrictions)	15.09.2005
36	Tatarsky d., v. Nikulino	10.08.2005	FGI-NIVL	HI	5,366	3	...	10.08.2005 (restrictions)	16.09.2005
37	Barabinsky d., v. Ust-Tandovka	10.08.2005	FGI-NIVL	HI	3,759	...	13	10.08.2005 (restrictions)	21.09.2005
38	Barabinsky d., v. Karmakla	10.08.2005	FGI-NIVL	HI	4,018	...	37	10.08.2005 (restrictions)	21.09.2005
39	Barabinsky d., v. Zyuzya	05.08.2005	FGI-NIVL	HI	3,272	1	...	05.08.2005 (restrictions)	21.09.2005
40	Barabinsky d., v. Belovo	05.08.2005	FGI-NIVL	HI	2,049	...	...	05.08.2005 (restrictions)	21.09.2005
41	Barabinsky d., v. Novonikholayevka	05.08.2005	FGI-NIVL	HI	5,083	6	...	05.08.2005 (restrictions)	21.09.2005
42	Tchanovsky d., v. Aul Koshkul	04.08.2005	FGI-NIVL	HI	1,401	8	347	04.08.2005 (restrictions)	16.09.2005
43	Tchanovsky d., v. Scheglovo	04.08.2005	FGI-NIVL	HI	2,163	...	518	04.08.2005 (restrictions)	16.09.2005
44	Tchanovsky d., v. Kovylnoye	04.08.2005	FGI-NIVL	HI	...	6	1,699	04.08.2005 (restrictions)	16.09.2005
45	Tchanovsky d., v. Tagan	04.08.2005	FGI-NIVL	HI	4,275	...	...	04.08.2005 (restrictions)	08.11.2005
46	Tchanovsky d., v. Pokrovka	04.08.2005	FGI-NIVL	HI	2,650	...	...	04.08.2005 (restrictions)	08.11.2005
47	Tchanovsky d., v. Sarybalik	04.08.2005	FGI-NIVL	HI	1,124	...	473	04.08.2005 (restrictions)	16.09.2005
48	Ust-Tatrsky d., v. Scherbaky	10.08.2005	FGI-NIVL	HI	5,332	2	2	10.08.2005 (restrictions)	07.11.2005
49	Ust-Tatrsky d., v. Kamyshevo	10.08.2005	FGI-NIVL	HI	5,007	73	144	10.08.2005 (restrictions)	14.11.2005
50	Ust-Tatrsky d., v. Mikhailovka	10.08.2005	FGI-NIVL	HI	3,700	14	1	10.08.2005 (restrictions)	07.11.2005
51	Bagansky d., v. Bagan	15.08.2005	FGI-NIVL	HI	271,360	3	137	15.08.2005 (restrictions)	09.09.2005
52	Bagansky d., v. Voznesenka	15.08.2005	FGI-NIVL	HI	68,200	2	85	15.08.2005 (restrictions)	28.09.2005
53	Nchulmynsky d., v. Tchikman	11.08.2005	FGI-NIVL	HI	11,255	...	193	11.08.2005 (restrictions)	19.09.2005
54	Kolyvanovsky d., v. Izovka	24.08.2005	FGI-NIVL	HI	875	...	82	24.08.2005 (restrictions)	14.09.2005
55	Tcherepanovsky d., v. Maysky	24.08.2005	FGI-NIVL	HI	3010	...	12	24.08.2005 (restrictions)	03.10.2005
56	Tcherepanovsky d., v. Bochkary	24.08.2005	FGI-NIVL	HI	3,200	...	29	24.08.2005 (restrictions)	03.10.2005
57	Bagansky d., v. Slavyanka	03.10.2005	FGI-NIVL	HI	2,153	84	764	03.10.2005 (restrictions)	21.11.2005
58	Bagansky d., v. Mironovka	03.10.2005	FGI-NIVL	HI	11,550	10	155	03.10.2005 (restrictions)	21.11.2005

59	Dovolensky d., v. Utyanka	17.10.2005	FGI-NIVL	HI	...	67	1,161	17.10.2005 (restrictions)	08.11.2005
60	Krasnoozersky d., Krasnoozerskoye Ltd.	11.10.2005	FGI-NIVL	HI	5,500	28	173	11.10.2005 (restrictions)	08.11.2005
61	Bagansky d., v. Krasny Ostrov	14.10.2005	FGI-NIVL	HI	2,642	62	7	14.10.2005 (restrictions)	21.11.2005
62	Bagansky d., v. Paletskoye	14.10.2005	FGI-NIVL	HI	9,800	343	175	14.10.2005 (restrictions)	05.12.2005
63	Krasnoozersky d., v. Poloyka, Lake Pivoshnoye	17.10.2005	FGI-NIVL	HI	40,575	115	968	18.10.2005 (restrictions)	08.11.2005
64	Krasnoozersky d., v. Lugovoy, Lake Gorchik	17.10.2005	FGI-NIVL	HI	4,050	157	2,943	18.10.2005 (restrictions)	08.11.2005
<b>Omsk Region</b>									
1	Sargatsky d., v. Urusovo, Lake Zhivoye	27.07.2005	FGI-ARRIAH (Vladimir)	PCR	...	100	...	04.08.2005 (quarantine)	28.09.2005
2	Okoneshnikovskiy d., v. Presnovka	05.08.2005	FGI-NIVL, NPC 'Vector'	PCR, HI	3,215	657	4,175	08.08.2005 (quarantine)	05.09.2005
3	Maryanovskiy d., v. Mospalenskiy	05.08.2005	FGI-NIVL, NPC 'Vector'	PCR, HI	11,171	282	1,146	06.08.2005 (quarantine)	09.09.2005
4	Lyubinskiy d., v. Pervomayskiy	18.08.2005	NPC 'Vector'	PCR, HI	429	20	48	12.08.2005 (quarantine)	13.09.2005
5	Isilkulskiy d., v. Emontayevoye	18.08.2005	NPC 'Vector'	PCR, HI	1,270	43	1,262	12.08.2005 (quarantine)	04.10.2005
6	Isilkulskiy d., v. Novo- rozhddestvenka	18.08.2005	NPC 'Vector'	PCR, HI	9,257	151	1,882	12.08.2005 (quarantine)	04.10.2005
7	Omskiy d., ONO TPH SibNIP GNU MNTU "Plemptitsa"	24.08.2005	FGI-NIVL	PCR	142,000	...	...	20.08.2005 (restrictions)	26.09.2005
8	Moskalenskiy d., v. Shevtchenko	24.08.2005	FGI-NIVL	PCR	7,617	35	20	26.08.2005 (quarantine)	19.09.2005
9	Russko-Polyanskiy d., Rozovskiy r/d, v. Rotovka	26.10.2005	FGI-NIVL	PCR	3,371	101	1,432	27.10.2005 (quarantine)	24.11.2005
<b>Tambov Region</b>									
1	Morshanskiy d., Morshansk (town)	24.10.2005	FGI-ARRIAH	PCR	67	14	53	23.10.2005 (quarantine)	15.11.2005
2	Tambovskiy d., v. Streltsy	27.10.2005	FGI-ARRIAH	PCR	85	12	73	28.10.2005 (quarantine)	29.11.2005
<b>Tiumen Region</b>									
1	Berdyuzhskiy d., v. Peganovo	28.07.2005	TOVL FGI-NIVL	HI PCR	9,946	138	9,946	01.08.2005 (quarantine)	05.09.2005
2	Armizonskiy d., v. Krashenovo	02.08.2005	TOVL, FGI-NIVL	HI	1,612	79	1,612	01.08.2005 (quarantine)	05.09.2005
3	Berdyuzhskiy d., v. Vorobyeyevoye	06.08.2005	TOVL, FGI-NIVL	HI	3,432	26	3,432	06.08.2005 (quarantine)	19.09.2005
4	Berdyuzhskiy d., v. Vlasovo	06.08.2005	TOVL, FGI-NIVL	HI	2,077	46	2,077	06.08.2005 (quarantine)	19.09.2005
5	Berdyuzhskiy d., v. Kushluk	06.08.2005	TOVL	HI	820	25	820	10.08.2005 (quarantine)	19.09.2005
6	Berdyuzhskiy d., v. Uktuz	08.08.2005	TOVL FGI-NIVL	HI PCR	5,034	51	5,034	01.08.2005 (quarantine)	19.09.2005
7	Ishimskiy d., v. Novotravnoye	20.08.2005	TOVL	PCR	6,385	42	6,385	21.08.2005 (quarantine)	26.09.2005
8	Sladkovskiy d., v. Sladkovo	27.08.2005	TOVL	HI, PCR	18,000	21	59	19.09.2005 (quarantine)	26.09.2005
<b>Tula Region</b>									
1	Efremovskiy d., v. Yandovka	19.10.2005	CNIVL, FGI-ARRIAH	PCR	2,506	270	2,236	19.10.2005 (quarantine)	11.11.2005

**Details of areas where HPAI has been suspected but not confirmed:**

N°	Suspected area (district [d.], village [v.], lake, etc.,)	Diagnosis						Type of restriction measures (restrictions, quarantine)	
		Date of confirmation of diagnosis	Laboratory	Method used for diagnosis	Total number of birds in affected settle- ment	No. of deaths	No. of birds destroyed	Date of implemen- tation	Date restrictions measures lifted
<b>Kurgan Region</b>									
1	Petukhovskiy d., Petukhovo (town)	suspected			9,970	70	194	19.08.2005 (restrictions)	24.10.2005
2	Petukhovskiy d., v. Petushkiy	suspected			4,314	1,238	543	08.08.2005 (restrictions)	24.10.2005
3	Petukhovskiy d., v. Teploye	suspected			709	140	353	08.08.2005 (restrictions)	24.10.2005
4	Petukhovskiy d., v. B. Gusinoye	suspected			3,514	27	45	16.08.2005 (restrictions)	24.10.2005
5	Petukhovskiy d., v. B. Kamenskoye	suspected			4,696	84	280	16.08.2005 (restrictions)	24.10.2005
6	Almenevskiy d., d. Malyshevo	suspected			1,877	31	27	...	24.10.2005
7	Almenevskiy d., v. Kazennoye	suspected			5,082	528	298	...	24.10.2005
8	Makushinskiy d., v. Bolshaya Krivinka	suspected			635	65	...	19.08.2005 (restrictions)	24.10.2005
9	Makushinskiy d., v. Obutkiy	suspected			1,256	65	...	19.08.2005 (restrictions)	24.10.2005
10	Lebyazhyevskiy d., v. Krivaya Gorka	suspected			60	15	...	...	24.10.2005
11	Lebyazhyevskiy d., v. Lisye	suspected			1,500	7	27	18.08.2005 (restrictions)	30.08.2005

\*  
\* \*



**NEWCASTLE DISEASE IN ROMANIA**  
**Follow-up report No. 4**

*Information received on 27 December 2005 from Dr Gabriel Predoi, Director General, National Sanitary Veterinary and Food Safety Authority, Bucharest:*

**End of previous report period:** 15 December 2005 (see *Disease Information*, **18** [50], 517, dated 16 December 2005).

**End of this report period:** 27 December 2005.

**Date of first confirmation of the event:** 14 October 2005.

**Date of start of the event:** 15 September 2005.

**Nature of diagnosis:** clinical, post-mortem and laboratory.

**New outbreaks:**

First administrative division (County)	Lower administrative division	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreaks				
					susceptible	cases	deaths	destroyed	slaughtered
Arges	Oarja	Oarja	7 Dec. 2005	avi	...	...	1	...	0
Calarasi	Calarasi	Calarasi	1 Dec. 2005	avi	24	21	21	3	0
Ilfov	Dascalu	Dascalu	5 Dec. 2005	avi	145	145	145	0	0
Ilfov	Voluntari	Voluntari	5 Dec. 2005	avi	43	43	43	0	0
Ilfov	Voluntari	Voluntari	6 Dec. 2005	avi	10	6	8	2	0
Ilfov	Voluntari	Voluntari	6 Dec. 2005	avi	33	28	28	5	0
Mures	Cipau	Cipau	6 Dec. 2005	avi	44	25	25	19	0

**Description of affected population:** the affected hen in Oarja, Arges county, was found dead on wasteland. In the other outbreaks, the affected poultry (hens) were detected in backyard premises.

**Diagnosis:**

Laboratory where diagnostic tests were performed	Outbreak	Samples examined	Diagnostic test used	Date	Results
Institute for Diagnostic and Animal Health (National Reference Laboratory)	Oarja	5 cloacal swabs sampled from 1 hen corpse	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	20 Dec. 2005	ICPI=1.69; positive
	Calarasi	3 cloacal swabs, 3 tracheal swabs and 3 samples consisting of organs from 3 hen corpses	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	20 Dec. 2005	ICPI=1.68; positive
	Dascalu	organs sampled from 4 hen corpses	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	20 Dec. 2005	ICPI=1.76; positive
	Voluntari	organs sampled from 3 hen corpses	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	12 Dec. 2005	ICPI=1.70; positive
	Voluntari	organs sampled from 1 hen corpse	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	12 Dec. 2005	ICPI=1.68; positive
	Voluntari	organs sampled from 1 hen corpse	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	20 Dec. 2005	ICPI=1.73; positive

<i>Laboratory where diagnostic tests were performed</i>	<i>Outbreak</i>	<i>Samples examined</i>	<i>Diagnostic test used</i>	<i>Date</i>	<i>Results</i>
Institute for Diagnostic and Animal Health (National Reference Laboratory)	Cipau	15 samples of organs from 5 hen corpses, 15 tracheal swabs and 25 cloacal swabs	- ICPI <sup>(1)</sup> test on day-old SPF <sup>(2)</sup> chicks; - virus isolation in embryonated SPF eggs.	20 Dec. 2005	ICPI=1.71; positive

**Source of new outbreaks:** unknown or inconclusive.

**Control measures**

**A. Undertaken:**

- partial stamping out;
- quarantine;
- movement control;
- screening;
- zoning;
- disinfection of infected premises.

**B. To be undertaken:**

- control of wildlife reservoirs.

**Treatment of affected animals:** no.

**Vaccination prohibited:** no.

**Other details/comments:**

- In Dascalu, the disease appeared in vaccinated flocks (the vaccine was probably not of the appropriate quality).
- At the moment of the epidemiological investigations, no live poultry were found in any of the three affected backyard premises in Dascalu or the three affected household premises in Voluntari (all poultry were dead).
- Quarantine, movement control and disinfection of backyard premises were instituted immediately in accordance with the national legal provisions in force.

**Final report:** no.

(1) ICPI: intracerebral pathogenicity index

(2) SPF: specific pathogen free

## NEWCASTLE DISEASE IN SWEDEN

(Date of previous outbreak of Newcastle disease in Sweden reported to the OIE: November 2005).

### IMMEDIATE NOTIFICATION REPORT

Information received on 28 December 2005 from Dr Leif Denneberg, Chief Veterinary Officer, Swedish Board of Agriculture (SBA), Jönköping:

**Report date:** 28 December 2005.

**Reason for immediate notification:** re-occurrence of a listed disease or infection in a country or zone/compartiment following a report declaring the outbreak(s) ended.

**Precise identification of agent:** paramyxovirus type 1.

**Date of first confirmation of the event:** 27 December 2005.

**Date of start of the event:** 9 December 2005.

**Clinical disease:** yes.

**Nature of diagnosis:** laboratory.

### Details of outbreak:

First administrative division	Type of epidemiological unit	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreak				
					susceptible	cases	deaths	destroyed	slaughtered
County of Skåne	farm	Norra Skravlinge, Billeberga	9 Dec. 2005	avi	18,900	300	300	18,600	0

**Description of affected population:** laying hens.

### Diagnosis:

Laboratories where diagnostic tests were performed	Species examined	Diagnostic tests used	Date	Results
National Veterinary Institute, Uppsala	avi	- polymerase chain reaction (PCR); - virus isolation; - haemagglutination inhibition test.	27 Dec. 2005	positive
		- molecular sequencing.	27 Dec. 2005	RRQRR*FIG

On 27 December 2005, samples were sent to VLA-Weybridge, United Kingdom (OIE Reference Laboratory for avian influenza).

**Source of outbreak or origin of infection:** unknown or inconclusive.

### Control measures undertaken:

- stamping out;
- quarantine;
- movement control inside the country;
- screening;
- zoning;
- disinfection of infected premises/establishment.

**Vaccination prohibited:** yes.

**FOOT AND MOUTH DISEASE IN ISRAEL**  
**Follow-up report No. 1**

*Information received on 29 December 2005 from Dr Moshe Chaimovitz, Director of Veterinary and Animal Health Services, Ministry of Agriculture and Rural Development, Beit-Dagan:*

**End of previous report period:** 20 December 2005 (see *Disease Information*, **18** [51], 522, dated 23 December 2005).

**End of this report period:** 29 December 2005.

**Precise identification of agent:** foot and mouth disease (FMD) virus serotype O.

**Date of first confirmation of the event:** 20 December 2005.

**Date of start of the event:** 19 December 2005.

**Nature of diagnosis:** clinical and laboratory.

**Details of the outbreak (data corrected and updated):**

First administrative division	Lower administrative division	Type of epidemiological unit	Name of the location	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals in the outbreak				
								susceptible	cases	deaths	destroyed	slaughtered
HaTsafon region	Tsefat district	farm	Senir	33.23 N	35.67 E	19 Dec. 2005	bov	1,670	54	0	0	0

In the affected feedlot, more young steers were found with clinical signs. In total, 29 steer calves were infected.

After a thorough investigation, 25 pregnant heifers in an adjacent pasture unit of the same farm were also found to be positive for FMD. The affected heifers showed very mild clinical signs. It seems that the infection started among them at the same time as the first infection occurred in the feedlot.

In total, 54 cattle were found to be infected. Probang and blood samples from the affected heifers were positive for FMD virus type O, as were the calves reported previously.

An epidemiological survey did not reveal any additional cases within a 10-km radius of the outbreak.

**Final report:** no.

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**HIGHLY PATHOGENIC AVIAN INFLUENZA IN ROMANIA**  
**Follow-up report No. 14**

*Information received on 28 and 29 December 2005 from Dr Gabriel Predoi, Director General, National Sanitary Veterinary and Food Safety Authority, Bucharest:*

**End of previous report period:** 21 December 2005 (see *Disease Information*, **18** [51], 526, dated 23 December 2005).

**End of this report period:** 29 December 2005.

**Identification of agent:** highly pathogenic avian influenza (HPAI) virus serotype H5.

**Date of first confirmation of the event:** 7 October 2005.

**Date of start of the event:** 4 October 2005.

**Nature of diagnosis:** clinical and laboratory.

**Details of outbreaks:**

First administrative division (county)	Lower administrative division (district)	Name of the location (village)	Date of start of the outbreak	Species	Number of animals in the outbreaks				
					susceptible	cases	deaths	destroyed	slaughtered
Braila	Dudesti	Tataru	14 Dec. 2005	avi	295	73	67	228	...
Braila	Dudesti	Tataru	20 Dec. 2005	avi	141	...	32	97	...
Braila	Zavoiaia	Zavoiaia	19 Dec. 2005	avi	73	18	6	67	...
Calarasi	Modelu	Tonea	13 Dec. 2005	avi	80	69	66	14	...
Calarasi	Stefan Voda	Stefan Voda	20 Dec. 2005	avi	102	31	31	71	...
Ialomita	Albesti	Albesti	24 Dec. 2005	avi	82	19	14	68	...
Ialomita	Albesti	Marsilieni	16 Dec. 2005	avi	488	23	23	465	...
Ialomita	Reviga	Rovine	15 Dec. 2005	avi	220	52	52	168	...
Ialomita	Stelnica	Stelnica	20 Dec. 2005	avi	112	6	6	106	...
Ialomita	Traian	Traian	19 Dec. 2005	avi	36	16	16	20	...

**Diagnosis:**

Laboratory where diagnostic tests were performed	Location of the outbreaks	Samples examined	Diagnostic tests used	Date	Results
Institute for Diagnostics and Animal Health (national reference laboratory)	Tataru village	Samples taken from 2 hens, consisting of complete organs.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in SPF <sup>(2)</sup> embryonated eggs.	21 Dec. 2005	a. Positive; b. Positive for HPAI subtype H5.
	Tataru village	Samples taken from 3 backyard premises; there were, in total, 5 poultry: 3 hens, 1 turkey hen and 1 duck. Samples were: cloacal swabs and organs from all 5 poultry.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs; c. Rapid test for diagnosis of HPAI.	28 Dec. 2005	a. Positive; b. Positive for HPAI subtype H5; c. positive.
	Zavoiaia village	Organs sampled from 3 poultry: 1 hen, 1 turkey hen and 1 guinea-fowl.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs.	28 Dec. 2005	a. Positive; b. Positive for HPAI subtype H5.

<i>Laboratory where diagnostic tests were performed</i>	<i>Location of the outbreaks</i>	<i>Samples examined</i>	<i>Diagnostic tests used</i>	<i>Date</i>	<i>Results</i>
Institute for Diagnostics and Animal Health (national reference laboratory)	Tonea village	Organs taken from 1 hen and 1 turkey hen.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs; c. Rapid test for diagnosis of HPAI.	21 Dec. 2005	a. Positive; b. Positive for HPAI subtype H5; c. positive.
	Stefan Voda village	Organs taken from 3 hens and 5 cloacal swabs taken from 5 hens.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs.	23 Dec. 2005	a. Positive; b. Positive for HPAI subtype H5.
	Albesti village	10 samples: organs from 5 hens (5 samples) and 5 brain samples from the same 5 hens.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs.	27 Dec. 2005	a. positive; b. positive for HPAI subtype H5.
	Marsilieni village	Organs taken from 2 hens.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs.	22 Dec. 2005	a. positive; b. positive for HPAI subtype H5.
	Rovine village	10 samples: 3 tracheal swabs, 5 cloacal swabs, organs and blood taken from 1 hen.	a. RT-PCR <sup>(1)</sup> ; b. virus isolation in embryonated eggs.	20 Dec. 2005	a. positive; b. positive for HPAI subtype H5.
	Stelnica village	Organs taken from 3 hens, and organs taken from 4 hens and 1 turkey hen.	a. Rapid test for diagnosis of HPAI; b. virus isolation in embryonated eggs.	23 Dec. 2005	a. positive; b. positive for HPAI subtype H5.
	Traian village	Organs taken from 4 hens and 4 ducks.	a. Rapid test for diagnosis of HPAI; b. virus isolation in embryonated eggs.	21 Dec. 2005	a. positive; b. positive for HPAI subtype H5.

**Origin of infection:** contact with wild birds.

**Control measures**

**A. Undertaken:**

- partial stamping out;
- quarantine;
- movement control inside the country;
- screening;
- zoning;
- disinfection of infected premises/establishments.

**B. To be undertaken:**

- control of wildlife reservoirs.

**Treatment of affected animals:** no.

**Vaccination prohibited:** no.

**Other details/comments:**

<i>Location of the outbreaks</i>	<i>Control measures</i>	<i>Epidemiology</i>
<b>Tataru</b>	Control measures applied to entire village; at 19 Dec. 2005, partial stamping out had been applied, with 965 poultry being culled from 62 backyard premises.	In the vicinity of Tataru village there are two lakes frequented by migratory birds.
<b>Zavoia</b>	Control measures applied to entire village; at 20 Dec. 2005, 321 poultry had been culled from 7 backyard premises.	In the vicinity of Zavoia, there are three lakes.
<b>Tonea</b>	Control measures in accordance with the legislative provisions in force; partial stamping out.	A census has been made of poultry in the entire village: 210 backyard premises with 11,521 poultry. There are lakes in the locality.
<b>Stefan Voda</b>	Control measures have been applied in the entire locality and partial stamping out has been applied to the infected premises and to the neighbouring backyard premises.	The village is located in an area frequented by migratory birds.
<b>Albesti</b>	Control measures applied to entire village; partial stamping out applied to 4,096 poultry from 87 backyard premises.	
<b>Marsilieni</b>	8,508 poultry were culled from the 222 backyard premises (entire village).	
<b>Rovine</b>	Control measures applied to entire village; partial stamping out applied to 822 poultry from 26 backyard premises.	
<b>Stelnica</b>	Control measures applied to entire village; partial stamping out applied to 2,850 poultry from 76 backyard premises.	
<b>Traian</b>	Control measures applied to entire village; partial stamping out applied to 944 poultry from 33 backyard premises.	The village is in the vicinity of a few lakes, where there are over 2,300 <i>Anser albifrons</i> .

**Final report:** no.

(1) RT-PCR: reverse transcriptase – polymerase chain reaction

(2) SPF: specific pathogen-free

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