

Contents

Highly pathogenic avian influenza in the People's Republic of China: follow-up report No. 10	461
Foot and mouth disease in Brazil: follow-up report No. 11	462
Highly pathogenic avian influenza in Romania: follow-up report No. 9	464
Highly pathogenic avian influenza in Romania: follow-up report No. 10	465
Newcastle disease in Romania: follow-up report No. 1	467
American foulbrood in Chile: follow-up report No. 4	469
Highly pathogenic avian influenza in Vietnam: follow-up report No. 15 (covering the period from 1 October to 23 November 2005)	470
Highly pathogenic avian influenza in Thailand: follow-up report No. 78	477
Scrapie in the Falkland Islands/Malvinas	478
Avian influenza in Zimbabwe: suspected outbreaks	479
Newcastle disease in Denmark: follow-up report No. 2	480
Miscellaneous: Avian influenza in Canada (follow-up report No. 1)	481

HIGHLY PATHOGENIC AVIAN INFLUENZA IN THE PEOPLE'S REPUBLIC OF CHINA Follow-up report No. 10

Information received on 25, 28 and 30 November 2005 from Mr Jia Youling, Director General, Veterinary Bureau, Ministry of Agriculture, Beijing:

End of previous report period: 23 November 2005 (see *Disease Information*, 18 [47], 448, dated 25 November 2005).

End of this report period: 30 November 2005.

Precise identification of agent: highly pathogenic avian influenza virus serotype H5N1.

Date of first confirmation of the event: 7 June 2005.

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

Details of new outbreaks:

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Hunan province	Yongzhou city	village	Laobutou	18 Nov. 2005	avi	6,010	456	402	5,608	0
Inner Mongolia autonomous region	Zalantun city	village	Dashuiquancum	20 Nov. 2005	avi	3,626	246	246	3,380	0
Xinjiang autonomous region	Shanshan county	village	Shanshan	22 Nov. 2005	avi	800	288	288	512	0
Xinjiang autonomous region	Xinyuan county	village	Biesituobie	24 Nov. 2005	avi	680	596	300	380	0

Description of affected population in the new outbreaks: chickens.

Diagnosis:

<i>Laboratory where diagnostic tests were performed</i>	<i>Diagnostic tests used</i>	<i>Date</i>	<i>Results</i>
Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Harbin (national reference laboratory for avian influenza)	- haemagglutination inhibition test; - RT-PCR ⁽¹⁾ .	25-30 Nov. 2005	positive
	intravenous pathogenicity index (IVPI) test	25-30 Nov. 2005	positive (highly pathogenic)

Source of new outbreaks: unknown or inconclusive.

Control measures undertaken:

- stamping out applied to 189,237 birds around the outbreaks;
- quarantine;
- movement control inside the country;
- screening;
- zoning;
- vaccination;
- disinfection of infected premises/establishments;
- dipping/spraying.

Final report: no.

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

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* *

FOOT AND MOUTH DISEASE IN BRAZIL
Follow-up report No. 11

Translation of information received on 25 November 2005 from Dr Jorge Caetano Junior, Director, Department of Animal Protection (DDA), Ministry of Agriculture, Livestock and Food Supply, Brasilia:

End of previous report period: 17 November 2005 (see *Disease Information*, **18** [46], 431, dated 18 November 2005).

End of this report period: 25 November 2005.

Identification of agent: foot and mouth disease (FMD) virus serotype O.

Date of first confirmation of the event: 8 October 2005.

Date of start of the event: 26 September 2005.

Surveillance activities in the State of Mato Grosso do Sul have led to the detection of four new outbreaks of foot and mouth disease (FMD), diagnosed on clinical and epidemiological grounds: three in Mundo Novo municipality and one in Japorã municipality.

Details of new outbreaks:

First administrative division (State)	Lower administrative division (municipality)	Type of epidemiological unit	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals in the outbreaks				
							susceptible	cases	deaths	des-troyed	slaugh-tered
Mato Grosso do Sul	Japorã	farm	23°50'58.2"S	54°35'58.9"W	6 Nov. 2005*	bov	1,072	10	0	1,072	0
Mato Grosso do Sul	Mundo Novo	farm	23°50'14.3"S	54°21'4.5"W	10 Nov. 2005	bov	333	11	0	...	0
Mato Grosso do Sul	Mundo Novo	farm	23°56'15.3"S	54°16'13.5"W	11 Nov. 2005	bov	9	1	0	9	0
Mato Grosso do Sul	Mundo Novo	farm	23°55'04.8"S	54°16'49.4"W	13 Nov. 2005	bov	27	5	0	27	0

* the official Veterinary Service was notified on 14 November 2005

Description of affected population in the new outbreaks:

In Mundo Novo municipality, two of the affected holdings are situated very close together; they have a total of 36 head of cattle, used for subsistence purposes. The third holding has 333 animals for rearing and breeding.

In Japorã municipality, the affected holding contains 1,072 head of cattle for rearing and breeding. Ten female animals aged between 12 and 24 months showed clinical signs compatible with FMD.

Source of new outbreaks: unknown or inconclusive (investigations in progress).

Control measures

A. Undertaken:

- stamping out;
- quarantine;
- movement control inside the country;
- screening;
- zoning.

B. To be undertaken:

- disinfection of infected premises/establishments.

Other details/comments:

1. Outbreaks in the State of Mato Grosso do Sul:

To date, in the State of Mato Grosso do Sul, 28 outbreaks have been detected and 14,785 FMD-susceptible animals have been slaughtered and destroyed.

The change in the weather in the State of Mato Grosso do Sul has enabled stamping-out activities to be intensified.

The sanitation process is in progress in the holdings where all susceptible animals have been destroyed.

Surveillance measures continue to be implemented, with the municipalities of Eldorado, Iguatemi, Itaquiraí, Japorã and Mundo Novo remaining under a ban. In the latter municipalities, there continues to be a ban on the movement and marketing of FMD-susceptible animals and their products and by-products. The activities of disinfecting vehicles and raising farmers' awareness are being maintained.

2. Suspected outbreaks in the State of Paraná:

There are still 9 suspected outbreaks in the State of Paraná (4 in Loanda, 2 in Amaporã, 2 in Maringá and 1 in Grandes Rios).

Since the first suspected outbreak was notified, 711 rural holdings have been inspected and placed under a ban, involving the inspection of 97,430 FMD-susceptible animals. These holdings are being monitored by 15 mobile teams.

The ban on 32 municipalities with areas located within a 10-km radius of suspected outbreaks in the State of Paraná is being maintained.

Final report: no.

HIGHLY PATHOGENIC AVIAN INFLUENZA IN ROMANIA
Follow-up report No. 9

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

End of previous report period: 22 November 2005 (see *Disease Information*, **18** [47], 452, dated 25 November 2005).

End of this report period: 27 November 2005.

Identification of agent: avian influenza 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 new outbreaks:

First administrative division (County)	Lower administrative division (district)	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreaks				
					susceptible	cases	deaths	destroyed	slaughtered
Tulcea	Caraorman	Obretinul Mic lake	21 Nov. 2005	fau	...	...	1*	...	...
Tulcea	Sulina	Musura bay, N-NE zone	21 Nov. 2005	fau	...	...	7**	...	...

* water hen

** swans

Description of affected population in the new outbreaks: migratory birds found dead in the Danube Delta.

Diagnosis:

Laboratory where diagnostic tests were performed	Samples examined	Diagnostic tests used	Date	Results
Institute for Diagnostics and Animal Health (national reference laboratory)	swans: cloacal swabs, tracheal swabs, organs (trachea, lungs and brain)	virus isolation in SPF ⁽¹⁾ chicken embryos	21 Nov. 2005	positive

Source of new outbreaks: unknown or inconclusive; contact with wild birds.

Control measures

A. Undertaken: screening.

B. To be undertaken: control of wildlife reservoirs.

Vaccination prohibited: no.

Other details/comments:

Continuing surveillance of the entire Danube Delta territory: all corpses and sick birds are collected and examined at the Tulcea Estate County Laboratory; those that are positive are sent for confirmation to the Institute for Diagnostics and Animal Health (national reference laboratory).

Final report: no.

(1) SPF: specific pathogen-free

HIGHLY PATHOGENIC AVIAN INFLUENZA IN ROMANIA
Follow-up report No. 10

Information received on 27 November and 1 December 2005 from Dr Gabriel Predoi, Director General, National Sanitary Veterinary and Food Safety Authority, Bucharest:

End of previous report period: 27 November 2005 (see *Disease Information*, **18** [48], 464, dated 2 December 2005).

End of this report period: 1 December 2005.

Identification of agent: avian influenza 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.

New outbreaks:

First administrative division (County)	Lower administrative division (district)	Name of the location	Date of start of the outbreak	Species	Number of animals in the outbreaks				
					susceptible	cases	deaths	destroyed	slaughtered
Braila	Ciresu	Scarlatesti	23 Nov. 2005	avi	184*	50	50	134	0
Tulcea	Sulina	Periprava	28 Nov. 2005	avi	49**	45	8	41	0

* 125 hens, 25 turkeys, 24 ducks and 10 geese

** 49 hens

Suspected outbreaks:

First administrative division (County)	Lower administrative division (district)	Name of the location	Date of start of the suspected outbreak	Species	Number of animals in the suspected outbreaks				
					susceptible	cases	deaths	destroyed	slaughtered
Braila	Dudesti	Bumbacari	...	avi	98	5	5	93	0
Braila	Zavoia	Dudescu	...	avi	150	33	33	117	0

Description of affected population: four backyard flocks.

Diagnosis:

Laboratory where diagnostic tests were performed	Outbreak	Samples examined	Diagnostic tests used	Date	Results
Institute for Diagnostics and Animal Health (national reference laboratory)	Scarlatesti	organs and head of turkey hen	- rapid test for virus antigen detection; - RT-PCR ⁽¹⁾ for detection of specific viral genome (on primary pathological material); - virus isolation in SPF ⁽²⁾ chicken embryos.	26 Nov. 2005	positive for highly pathogenic avian influenza virus serotype H5
	Periprava	3 samples of organ fragments, 14 tracheal swabs and 20 cloacal swabs, all taken from 8 hens	- rapid test for virus antigen detection (on tracheal and cloacal swabs); - RT-PCR ⁽¹⁾ for detection of specific viral genome (on tracheal and cloacal swabs); - virus isolation in SPF ⁽²⁾ embryonated eggs.	1 Dec. 2005	positive for highly pathogenic avian influenza virus serotype H5

<i>Laboratory where diagnostic tests were performed</i>	<i>Outbreak (suspected)</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)	Bumbacari	2 samples comprised of organ fragments, 10 cloacal swabs, taken from 2 hens	- rapid test for virus antigen detection; - RT-PCR ⁽¹⁾ for detection of specific viral genome (on primary pathological material).	30 Nov. 2005	positive
	Dudescu	1 sample comprised of organs and 5 cloacal swabs taken from 1 hen; 1 sample comprised of organs and 5 cloacal swabs, taken from 1 chicken	- rapid test for virus antigen detection; - RT-PCR ⁽¹⁾ for detection of specific viral genome (on primary pathological material).	30 Nov. 2005	positive

Origin of infection: contact with wild birds.

Control measures

A. Undertaken:

- affected villages placed under official control;
- stamping out applied to all birds within the affected villages (culling of poultry by gassing with CO₂ in containers; destruction of corpses by burning and burying);
- quarantine (all transport of people, poultry, poultry products, feed, etc., is prohibited).

B. To be undertaken:

- restriction measures are being applied to the entire affected villages;
- disinfection of backyard premises and roads are being performed in the affected villages.

Vaccination prohibited: no.

Other details/comments:

- There are some small lakes in the immediate vicinity of the village of Scarlatesti. There are no other locality within a 3-km radius of Scarlatesti.
- The villages of Bumbacari and Dudescu are situated within the epidemiological surveillance zone around Scarlatesti.
- The village of Bumbacari has only 17 households and approximately 700 poultry.
- The entire poultry population in the village of Dudescu was 5,343 birds (4,097 hens and turkeys and 1,246 ducks and geese).

Final report: no.

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

(2) SPF: specific pathogen-free

NEWCASTLE DISEASE IN ROMANIA
Follow-up report No. 1

Information received on 28 and 30 November 2005 from Dr Gabriel Predoi, Director General, National Sanitary Veterinary and Food Safety Authority, Bucharest:

End of previous report period: 22 November 2005 (see *Disease Information*, **18** [47], 451, dated 25 November 2005).

End of this report period: 30 November 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.

Details of new outbreaks:

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Bucharest City	Bucharest	village	1st district	...	avi	...	1	1	0	0
Bucharest City	Bucharest	village	6th district	24 oct. 2005	avi	...	2	2	0	0
Ilfov County	Balotesti	village	Balotesti	...	avi	27	26	26	1	0
Ilfov County	Darasti	village	Darasti	24 oct. 2005	avi	8	8	8	0	0
Tulcea County	Grindu	village	Grindu	...	avi	53	47	47	6	0
Tulcea County	I.C. Bratianu	village	I.C. Bratianu	18 oct. 2005	avi	8	7	7	1	0
Tulcea County	Ilganii-de-Sus	village	Ilganii-de-Sus	20 oct. 2005	avi	35	31	31	4	0
Tulcea County	Jijia	village	Jijia	...	avi	42	36	36	6	0
Tulcea County	Niculitel	village	Niculitel	20 oct. 2005	avi	70	65	65	5	0
Vrancea County	Dumbraveni	village	Dumbraveni	25 oct. 2005	avi	98	24	24	74	0

Description of affected populations in the new outbreaks:

- Outbreaks in Bucharest: two hens were found dead on waste land in the 6th district of Bucharest; the corpses were taken to the laboratory by a passer-by. Another hen was found dead on waste land in the 1st district.
- Outbreak in Dumbraveni, Vrancea County: domestic pigeons.
- Other outbreaks: hens in backyard premises.

Diagnosis:

<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 Diagnostics and Animal Health (national reference laboratory)	Bucharest (1st district)	1 cloacal swab taken from 1 hen corpse	ICPI ⁽¹⁾	25 Oct. 2005	ICPI=1.62
	Bucharest (6th district)	2 cloacal swabs taken from 2 hen corpses	ICPI	24 Oct. 2005	ICPI=1.72
	Ilfov (Balotesti)	2 cloacal swabs taken from 2 hen corpses	ICPI	1 Nov. 2005	ICPI=1.66
	Ilfov (Darasti)	organs from 1 hen	ICPI	24 Oct. 2005	ICPI=1.75
	Tulcea (Grindu)	1 tracheal swab and brain sample taken from 1 hen corpse	ICPI	1 Nov. 2005	ICPI=1.90
	Tulcea (I.C. Bratianu)	1 tracheal swab, 4 cloacal swabs and organs taken from hens	ICPI	19 Oct. 2005	ICPI=1.72
	Tulcea (Ilganii-de-Sus)		ICPI	21 Oct. 2005	ICPI=1.80
	Tulcea (Niculitel)		ICPI	21 Oct. 2005	ICPI=1.70
	Tulcea (Jijia)	6 tracheal swabs and 6 brain samples taken from 6 hen corpses	ICPI	1 Nov. 2005	ICPI=1.67
	Vrancea (Dumbraveni)	allanto-amniotic fluid sampled from 9-day-old embryonated eggs inoculated with aseptic homogenate of brain and organs taken from 5 pigeon corpses	ICPI	25 Oct. 2005	ICPI=1.86

Source of new outbreaks: unknown or inconclusive (contact with wild birds?).

Control measures undertaken:

- quarantine;
- strict isolation of outbreaks in the infected backyard premises;
- destruction of all infected and exposed birds;
- cleaning and disinfection of premises;
- proper carcass disposal;
- screening;
- zoning;
- movement control inside the country;
- control of human movements.

Vaccination prohibited: no.

Final report: no.

(1) ICPI: intracerebral pathogenity index test

AMERICAN FOULBROOD IN CHILE
Follow-up report No. 4

Translation of information received on 29 November 2005 from Dr Hernan Rojas Olavarria, Head, Department of Animal Protection, Department of Agriculture and Animal Production (SAG), Ministry of Agriculture, Santiago:

End of previous report period: 22 November 2005 (see *Disease Information*, **18** [47], 453, dated 25 November 2005).

End of this report period: 29 November 2005.

Precise identification of agent: *Paenibacillus larvae* subsp. *larvae*.

Date of first confirmation of the event: 20 October 2005.

Date of start of the event: 15 October 2005.

Nature of diagnosis: clinical and laboratory.

Details of new outbreaks:

First administrative division	Lower administrative divisions	Type of epidemiological unit	Name of the location (sector)	Latitude	Longitude	Date of start of the outbreak	Species	Number of animals* in the outbreaks		
								susceptible	cases	destroyed
V Region	Valparaiso, Casablanca commune	apiary	Las Dichas	33°17'5.8991" S	71°29'39.1818" W	7 Nov. 2005	api	70	6	6
V Region	Valparaiso, Villa Alemana commune	apiary	Villa Alemana	33°2'26.5279" S	71°18'50.1553" W	31 Oct. 2005	api	57	2	2
VI Region	Cardenal Caro, Litueche commune	apiary	Pulín	34°8'24.1384" S	71°34'24.1470" W	5 Nov. 2005	api	147	3	3

* hives

Diagnosis:

Laboratory where diagnostic tests were performed	Diagnostic tests used	Date	Results
Department of Laboratories and Plant and Animal Quarantine Stations, Lo Aguirre, Santiago de Chile (official SAG laboratory)	PCR ⁽¹⁾	15-18 Nov. 2005	positive

Source of new outbreaks: contact with affected hives.

Control measures undertaken:

- quarantine;
- partial stamping out;
- movement control inside the country.
- zoning.

Final report: no.

(1) PCR: polymerase chain reaction

HIGHLY PATHOGENIC AVIAN INFLUENZA IN VIETNAM
Follow-up report No. 15 (covering the period from 1 October to 23 November 2005)

Information received on 29 November 2005 from Dr Bui Quang Anh, Director, Department of Animal Health, Ministry of Agriculture and Rural Development, Hanoi:

End of previous report period: 27 June 2005 (see *Disease Information*, **18** [26], 175, dated 1 July 2005).

Identification of agent: highly pathogenic avian influenza virus type H5N1.

Date of first confirmation of the event: 6 January 2004.

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

Details of new outbreaks:

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Bac Giang	Hiep Hoa	village	...	15 Nov. 05	avi	...	...	15	89	...
Bac Giang	Lang Giang	village	Dinh Tri	8 Nov. 05	avi	...	...	15	118	...
Bac Giang	Lang Giang	village	Tan Thinh	9 Nov. 05	avi	...	...	50	723	...
Bac Giang	Luc Ngan	village	Phuong Son	9 Nov. 05	avi	...	...	140	525	...
Bac Giang	Son Dong	village	Giao Lien	13 Nov. 05	avi	...	...	50	575	...
Bac Giang	Son Dong	village	...	16 Nov. 05	avi	...	...	50	575	...
Bac Giang	Tan Yen	village	...	15 Nov. 05	avi	...	...	42	1,080	...
Bac Giang	TX. Bac Giang	village	...	15 Nov. 05	avi	...	...	15	528	...
Bac Giang	Viet Yen	village	Tan Tien	30 Oct. 05	avi	...	...	960	11,791	...
Bac Giang	Viet Yen	village	Van Trung	30 Oct. 05	avi	...	...	2,005	25,446	...
Bac Giang	Yen Dung	village	Dong Viet	15 Nov. 05	avi	...	...	253	4,220	...
Bac Giang	Yen Dung	village	Nham Son	15 Nov. 05	avi	...	...	40	8,021	...
Bac Giang	Yen Dung	village	Yen Lu	30 Oct. 05	avi	...	...	2,258	32,134	...
Bac Lieu	Hong Dan	village	Ninh Quoi	1 Oct. 05	avi	1,030	...	350	1030	...
Bac Ninh	Gia Binh	village	Lang Ngam	12 Nov. 05	avi	...	...	4	80	...
Bac Ninh	Luong Tai	village	Binh Huong	22 Nov. 05	avi	...	...	97	450	...
Bac Ninh	Luong Tai	village	Binh Huong	22 Nov. 05	avi	...	...	147	470	...
Bac Ninh	Thuan Thanh	village	Gia Dong	7 Nov. 05	avi	...	...	100	800	...
Bac Ninh	Thuan Thanh	village	Gia Dong	7 Nov. 05	avi	...	...	150	800	...
Bac Ninh	Thuan Thanh	village	Gia Dong	7 Nov. 05	avi	...	...	75	375	...
Bac Ninh	Thuan Thanh	village	Hoai Thuong	16 Nov. 05	avi	...	...	320	600	...
Bac Ninh	Thuan Thanh	village	Nghia Dao	20 Nov. 05	avi	...	...	84	2,132	...
Bac Ninh	Thuan Thanh	village	Nghia Dao	21 Nov. 05	avi	...	...	30	1,000	...
Bac Ninh	Thuan Thanh	village	Thanh Khuong	17 Nov. 05	avi	...	...	8	175	...
Bac Ninh	Thuan Thanh	village	Tram Lo	11 Nov. 05	avi	...	...	70	2600	...
Bac Ninh	Thuan Thanh	village	Tram Lo	12 Nov. 05	avi	...	...	50	900	...
Bac Ninh	Thuan Thanh	village	Tram Lo	12 Nov. 05	avi	...	...	45	1,400	...
Bac Ninh	Thuan Thanh	village	Tri Qua	22 Nov. 05	avi	...	...	40	205	...
Bac Ninh	Thuan Thanh	village	TT. Ho	21 Nov. 05	avi	...	...	50	700	...
Bac Ninh	Thuan Thanh	village	TT. Ho	21 Nov. 05	avi	...	...	30	500	...
Bac Ninh	Tien Du	village	Khac Niem	12 Nov. 05	avi	...	...	25	30	...
Bac Ninh	Tu Son	village	Dong Nguyen	21 Nov. 05	avi	...	...	100	300	...
Bac Ninh	Tu Son	village	Dong Nguyen	21 Nov. 05	avi	...	...	210	300	...
Bac Ninh	Tu Son	village	Phu Chan	18 Nov. 05	avi	...	...	49	414	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Bac Ninh	Tu Son	village	Phu Chan	21 Nov. 05	avi	...	...	590	800	...
Bac Ninh	Tu Son	village	Tam Son	9 Nov. 05	avi	...	...	483	450	...
Cao Bang	Cao Bang	village	Song Bang	13 Nov. 05	avi	...	...	12	12	...
Cao Bang	Cao Bang	village	Song Bang	23 Nov. 05	avi	...	...	30	251	...
Cao Bang	Cao Bang	village	Song Hien	20 Nov. 05	avi	...	...	5	21	...
Dong Thap	Lap Vo	village	Lap Vo Town	1 Oct. 05	avi	800	...	400	600	...
Dong Thap	Tam Nong	village	An Hoa	6 Nov. 05	avi	...	...	20	205	...
Dong Thap	Tam Nong	village	Hoa Binh	8 Nov. 05	avi	...	...	49	114	...
Dong Thap	Tam Nong	village	Phu Ninh	6 Nov. 05	avi	...	...	30	235	...
Dong Thap	Tam Nong	village	Phu Thanh	8 Nov. 05	avi	...	...	286	1,386	...
Dong Thap	Tam Nong	village	TT. Tram Chi	6 Nov. 05	avi	...	...	13	88	...
Dong Thap	Thanh Binh	village	Tan Thanh	17 Nov. 05	avi	...	...	86	118	...
Dong Thap	Thanh Binh	village	TT. Thanh Binh	16 Nov. 05	avi	...	...	19	681	...
Ha Giang	Bac Me	village	Phu Nam	18 Nov. 05	avi	...	...	15	15	...
Ha Noi	Hoang Mai	village	Linh Nam	26 Oct. 05	avi	...	...	15	15	...
Hai Duong	Binh Giang	village	Nhan Quyen	15 Nov. 05	avi	...	...	150	608	...
Hai Duong	Chi Linh	village	Bac An	15 Nov. 05	avi	...	...	90	750	...
Hai Duong	Chi Linh	village	Chi Minh	10 Nov. 05	avi	...	...	259	9,450	...
Hai Duong	Chi Linh	village	Chi Minh	11 Nov. 05	avi	...	...	479	9,550	...
Hai Duong	Chi Linh	village	Chi Minh	13 Nov. 05	avi	...	...	238	4,900	...
Hai Duong	Chi Linh	village	Chi Minh	15 Nov. 05	avi	...	...	178	4,350	...
Hai Duong	Chi Linh	village	Cong Hoa	7 Nov. 05	avi	...	...	350	754	...
Hai Duong	Chi Linh	village	Cong Hoa	15 Nov. 05	avi	...	...	100	2,600	...
Hai Duong	Chi Linh	village	Hoang Tien	15 Nov. 05	avi	...	...	88	815	...
Hai Duong	Chi Linh	village	Hoang Tien	17 Nov. 05	avi	...	...	10	150	...
Hai Duong	Chi Linh	village	Hung Dao	11 Nov. 05	avi	...	...	65	295	...
Hai Duong	Chi Linh	village	Hung Dao	17 Nov. 05	avi	...	...	88	826	...
Hai Duong	Chi Linh	village	Le Loi	17 Nov. 05	avi	...	...	50	200	...
Hai Duong	Chi Linh	village	Thai Hoc	17 Nov. 05	avi	...	...	200	600	...
Hai Duong	Chi Linh	village	TT. Pha Lai	14 Nov. 05	avi	...	...	380	3,150	...
Hai Duong	Chi Linh	village	TT. Sao Do	23 Nov. 05	avi	...	...	122,000	0	...
Hai Duong	Chi Linh	village	Van An	17 Nov. 05	avi	...	...	730	13,186	...
Hai Duong	Kim Thanh	village	TT. Phu Thai	23 Nov. 05	avi	...	...	7,500	0	...
Hai Duong	Kim Thanh	village	Viet Hung	15 Nov. 05	avi	...	...	160	800	...
Hai Duong	Thanh Ha	village	Quyét Thang	10 Nov. 05	avi	...	...	992	14,005	...
Hai Duong	Thanh Ha	village	Tan An	13 Nov. 05	avi	...	...	70	150	...
Hai Duong	Thanh Ha	village	Tan An	18 Nov. 05	avi	...	...	195	1,821	...
Hai Duong	Thanh Ha	village	Tan An	19 Nov. 05	avi	...	...	20	210	...
Hai Duong	Thanh Ha	village	Tan An	19 Nov. 05	avi	...	...	30	465	...
Hai Duong	Thanh Ha	village	Tan An	19 Nov. 05	avi	...	...	40	40	...
Hai Duong	Thanh Ha	village	Tan An	23 Nov. 05	avi	...	...	70	270	...
Hai Duong	Thanh Ha	village	Tan An	23 Nov. 05	avi	...	...	55	311	...
Hai Duong	Thanh Ha	village	Tan Viet	5 Nov. 05	avi	...	...	200	500	...
Hai Duong	Thanh Ha	village	Tan Viet	6 Nov. 05	avi	...	...	100	400	...
Hai Duong	Thanh Ha	village	Thanh Hai	17 Nov. 05	avi	...	...	370	3,945	...
Hai Duong	Thanh Ha	village	Thanh Thuy	2 Nov. 05	avi	...	...	165	375	...
Hai Duong	Thanh Ha	village	Thanh Thuy	14 Nov. 05	avi	...	...	310	2,650	...
Hai Duong	Thanh Ha	village	Thanh Thuy	17 Nov. 05	avi	...	...	172	650	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Hai Duong	Thanh Ha	village	Thanh Thuy	16 Nov. 05	avi	...	...	165	375	...
Hai Duong	Thanh Ha	village	Thanh Xuan	23 Nov. 05	avi	...	...	54	485	...
Hai Duong	Thanh Ha	village	Tien Tien	13 Nov. 05	avi	...	...	850	4,850	...
Hai Duong	Thanh Ha	village	TT. Thanh Ha	23 Nov. 05	avi	...	...	6,172	0	...
Hai Duong	Thanh Ha	village	Viet Hong	17 Nov. 05	avi	...	...	220	890	...
Hai Duong	Tu Ky	village	Quang Trung	18 Nov. 05	avi	...	...	166	395	...
Hai Duong	Tu Ky	village	TT. Tu Ky	17 Nov. 05	avi	...	...	120	1280	...
Hai Duong	Tu Ky	village	TT. Tu Ky	23 Nov. 05	avi	...	...	20,000	0	...
Hai Phong	An Lao	village	An Lao Town	26 Oct. 05	avi	...	...	26	26	...
Hoa Binh	Luong Son	village	Hoa Son	15 Nov. 05	avi	...	...	805	2,100	...
Hung Yen	An Thi	village	Quang Lang	5 Nov. 05	avi	...	...	30	142	...
Hung Yen	Khoai Chau	village	Dan Tien	9 Nov. 05	avi	...	...	63	490	...
Hung Yen	Kim Dong	village	Nghia Dan	4 Nov. 05	avi	...	...	20	80	...
Hung Yen	Kim Dong	village	Tho Vinh	10 Nov. 05	avi	...	...	18	290	...
Hung Yen	Tien Lu	village	Le Xa	8 Nov. 05	avi	...	...	150	330	...
Nghe An	Nam Dan	village	Nam Loc	19 Nov. 05	avi	...	...	460	0	...
Nghe An	Nam Dan	village	Nam Thanh	19 Nov. 05	avi	...	...	6	100	...
Nghe An	Nam Dan	village	Nam Thanh	19 Nov. 05	avi	...	...	90	0	...
Nghe An	Quynh Luu	village	Quynh Ba	16 Nov. 05	avi	...	...	54	0	...
Nghe An	Yen Thanh	village	Long Thanh	17 Nov. 05	avi	...	...	4	27	...
Nghe An	Yen Thanh	village	Long Thanh	17 Nov. 05	avi	...	...	2	12	...
Nghe An	Yen Thanh	village	Long Thanh	17 Nov. 05	avi	...	...	11	21	...
Nghe An	Yen Thanh	village	Long Thanh	17 Nov. 05	avi	...	...	7	17	...
Ninh Binh	Gia Vien	village	Gia Tan	13 Nov. 05	avi	...	...	58	240	...
Ninh Binh	Gia Vien	village	Gia Trung	17 Nov. 05	avi	...	...	20	100	...
Ninh Binh	Gia Vien	village	Gia Trung	17 Nov. 05	avi	...	...	78	100	...
Ninh Binh	Gia Vien	village	Gia Trung	17 Nov. 05	avi	...	...	78	100	...
Ninh Binh	Hoa Lu	village	Ninh An	13 Nov. 05	avi	...	...	39	690	...
Ninh Binh	Hoa Lu	village	Ninh Thang	19 Nov. 05	avi	...	...	50	351	...
Ninh Binh	Kim Son	village	Dong Huong	22 Nov. 05	avi	...	...	330	580	...
Ninh Binh	Kim Son	village	Dong Huong	22 Nov. 05	avi	...	...	91	202	...
Ninh Binh	Kim Son	village	Kim Tan	12 Nov. 05	avi	...	...	480	3,520	...
Ninh Binh	Kim Son	village	Luu Phuong	19 Nov. 05	avi	...	...	200	960	...
Ninh Binh	Kim Son	village	Tan Thanh	19 Nov. 05	avi	...	...	71	556	...
Ninh Binh	Nho Quan	village	Duc Long	13 Nov. 05	avi	...	...	40	560	...
Ninh Binh	Nho Quan	village	Gia Tuong	11 Nov. 05	avi	...	...	170	3,463	...
Ninh Binh	Nho Quan	village	Lac Van	17 Nov. 05	avi	...	...	55	0	...
Ninh Binh	TX. Ninh Binh	village	Nam Thanh	17 Nov. 05	avi	...	...	12	150	...
Ninh Binh	TX. Ninh Binh	village	Nam Thanh	17 Nov. 05	avi	...	...	78	100	...
Ninh Binh	TX. Ninh Binh	village	Ninh Phong	19 Nov. 05	avi	...	...	96	213	...
Ninh Binh	TX. Ninh Binh	village	Phuc Thanh	17 Nov. 05	avi	...	...	34	160	...
Ninh Binh	TX. Tam Diep	village	Dong Son	11 Nov. 05	avi	...	...	551	3,335	...
Ninh Binh	TX. Tam Diep	village	Yen Binh	13 Nov. 05	avi	...	...	544	6,744	...
Ninh Binh	TX. Tam Diep	village	Yen Son	19 Nov. 05	avi	...	...	26	51	...
Ninh Binh	Yen Khanh	village	Khanh Hong	7 Nov. 05	avi	...	...	58	72	...
Ninh Binh	Yen Mo	village	Khanh Thinh	15 Nov. 05	avi	...	...	47	724	...
Ninh Binh	Yen Mo	village	Khanh Thinh	15 Nov. 05	avi	...	...	47	724	...
Ninh Binh	Yen Mo	village	Mai Son	11 Nov. 05	avi	...	...	477	2,460	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Ninh Binh	Yen Mo	village	Yen Dong	7 Nov. 05	avi	...	...	370	13,941	...
Ninh Binh	Yen Mo	village	Yen Nhan	12 Nov. 05	avi	...	...	671	2,884	...
Ninh Binh	Yen Mo	village	Yen Thai	14 Nov. 05	avi	...	...	15	3,076	...
Ninh Binh	Yen Mo	village	Yen Thang	11 Nov. 05	avi	...	...	239	4,469	...
Ninh Binh	Yen Mo	village	Yen Thanh	15 Nov. 05	avi	...	...	20	77	...
Ninh Binh	Yen Mo	village	Yen Tu	1 Nov. 05	avi	...	...	50	50	...
Phu Tho	Yen Lap	village	Dong Thinh	14 Nov. 05	avi	...	...	110	340	...
Quang Ninh	Dong Trieu	village	Duc Chinh	18 Nov. 05	avi	...	...	20	0	...
Quang Ninh	Dong Trieu	village	Hung Dao	18 Nov. 05	avi	...	...	20	0	...
Quang Ninh	Dong Trieu	village	Yen Tho	18 Nov. 05	avi	...	...	74	196	...
Quang Ninh	TX. Uong Bi	village	Phuong Dong	18 Nov. 05	avi	...	...	150	0	...
Quang Ninh	TX. Uong Bi	village	Phuong Dong	22 Nov. 05	avi	...	...	50	0	...
Quang Ninh	TX. Uong Bi	village	Phuong Nam	22 Nov. 05	avi	...	...	100	0	...
Quang Ninh	TX. Uong Bi	village	Yen Thanh	22 Nov. 05	avi	...	...	200	0	...
Son La	Mai Son	village	Chieng Ban	18 Nov. 05	avi	...	...	8	49	...
Son La	Mai Son	village	Chieng Mung	19 Nov. 05	avi	...	...	10	22	...
Son La	Mai Son	village	Co Noi	21 Nov. 05	avi	...	...	110	950	...
Son La	Mai Son	village	TT. Hat Lot	14 Nov. 05	avi	...	...	25	120	...
Son La	Moc Chau	village	Chieng Hac	8 Nov. 05	avi	...	...	8	102	...
Son La	Moc Chau	village	Muong Sang	16 Nov. 05	avi	...	...	23	28	...
Son La	Moc Chau	village	Muong Sang	20 Nov. 05	avi	...	...	2	29	...
Son La	Moc Chau	village	TT. Moc Chau	8 Nov. 05	avi	...	...	25	162	...
Son La	Moc Chau	village	TT. Moc Chau	16 Nov. 05	avi	...	...	1	18	...
Son La	Moc Chau	village	TT. Moc Chau	22 Nov. 05	avi	...	...	9	38	...
Son La	Moc Chau	village	TT. NT Moc Chau	20 Nov. 05	avi	...	...	11	25	...
Son La	TX. Son La	village	Chieng An	21 Nov. 05	avi	...	...	100	110	...
Son La	TX. Son La	village	Chieng An	22 Nov. 05	avi	...	...	6	30	...
Son La	TX. Son La	village	Chieng An	22 Nov. 05	avi	...	...	2	140	...
Son La	TX. Son La	village	Chieng Coi	21 Nov. 05	avi	...	...	2	200	...
Son La	TX. Son La	Village	Chieng Le	12 Nov. 05	avi	...	...	14	18	...
Son La	TX. Son La	village	Quyet Tam	21 Nov. 05	avi	...	...	2	173	...
Son La	Yen Chau	village	Chieng Hac	19 Nov. 05	avi	...	...	9	30	...
Thai Binh	Hung Ha	village	TT. Hung Ha	13 Nov. 05	avi	...	...	40	85	...
Thai Nguyen	Phu Luong	village	Co Lung	15 Nov. 05	avi	...	...	6	30	...
Thai Nguyen	Phu Luong	village	Co Lung	19 Nov. 05	avi	...	...	15	35	...
Thai Nguyen	TP. Thai Nguyen	village	Phu Xa	22 Nov. 05	avi	...	...	4	9	...
Thanh Hoa	...	village	Thanh Loc	27 Oct. 05	avi	...	...	30	137	...
Thanh Hoa	Ba Thuoc	village	Dien Trung	22 Nov. 05	avi	...	...	14	40	...
Thanh Hoa	Ba Thuoc	village	Luong Ngoai	15 Nov. 05	avi	...	...	20	20	...
Thanh Hoa	Ba Thuoc	village	Thanh Lam	15 Nov. 05	avi	...	...	1,300	1,300	...
Thanh Hoa	Ba Thuoc	village	TT. Canh Nang	7 Nov. 05	avi	...	...	93	93	...
Thanh Hoa	Ba Thuoc	village	TT. Canh Nang	7 Nov. 05	avi	...	...	0	93	...
Thanh Hoa	Bim Son Town	village	...	20 Oct. 05	avi	200	...	10	110	...
Thanh Hoa	Dong Son	village	Dong Linh	14 Nov. 05	avi	...	...	29	89	...
Thanh Hoa	Dong Son	village	Dong Thinh	23 Nov. 05	avi	...	...	55	100	...
Thanh Hoa	Ha Trung	village	Ha Van	11 Nov. 05	avi	...	...	18	35	...
Thanh Hoa	Hau Loc	village	Da Loc	2 Nov. 05	avi	...	...	70	70	...
Thanh Hoa	Hau Loc	village	Da Loc	15 Nov. 05	avi	...	...	80	313	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
Thanh Hoa	Hau Loc	village	Da Loc	15 Nov. 05	avi	...	...	75	75	...
Thanh Hoa	Hau Loc	village	Dong Loc	10 Nov. 05	avi	...	...	5	40	...
Thanh Hoa	Hau Loc	village	Hung Loc	4 Oct. 05	avi	810	...	25	810	...
Thanh Hoa	Hau Loc	village	Hung Loc	18 Nov. 05	avi	...	...	50	50	...
Thanh Hoa	Hau Loc	village	Loc Son	31 Oct. 05	avi	...	...	40	40	...
Thanh Hoa	Hau Loc	village	Minh Loc	3 Nov. 05	avi	...	...	70	70	...
Thanh Hoa	Hau Loc	village	Minh Loc	23 Nov. 05	avi	...	...	39	70	...
Thanh Hoa	Hau Loc	village	Thanh Loc	23 Nov. 05	avi	...	...	16	45	...
Thanh Hoa	Hau Loc	village	Thuan Loc	13 Nov. 05	avi	...	...	65	250	...
Thanh Hoa	Hau Loc	village	Thuan Loc	23 Nov. 05	avi	...	...	46	380	...
Thanh Hoa	Hau Loc	village	Trieu Loc	17 Nov. 05	avi	...	...	20	218	...
Thanh Hoa	Hau Loc	village	Trieu Loc	18 Nov. 05	avi	...	...	56	56	...
Thanh Hoa	Hau Loc	village	Trieu Loc	19 Nov. 05	avi	...	...	5	5	...
Thanh Hoa	Hoang Hoa	village	Hoang Long	22 Nov. 05	avi	...	...	80	150	...
Thanh Hoa	Hoang Hoa	village	Hoang Phu	13 Nov. 05	avi	...	...	450	1,547	...
Thanh Hoa	Hoang Hoa	village	Hoang Quy	17 Nov. 05	avi	...	...	180	3,020	...
Thanh Hoa	Nga Son	village	Ba Dinh	11 Nov. 05	avi	...	...	134	810	...
Thanh Hoa	Nhu Thanh	village	Xuan Du	22 Nov. 05	avi	...	...	80	124	...
Thanh Hoa	Nhu Xuan	village	Thuong Ninh	11 Nov. 05	avi	...	...	75	200	...
Thanh Hoa	Quang Xuong	village	Quang Dai	14 Nov. 05	avi	...	...	21	538	...
Thanh Hoa	Quang Xuong	village	Quang Dai	14 Nov. 05	avi	...	...	31	39	...
Thanh Hoa	Quang Xuong	village	Quang Hung	15 Nov. 05	avi	...	...	2	30	...
Thanh Hoa	Quang Xuong	village	Quang Tam	18 Nov. 05	avi	...	...	40	40	...
Thanh Hoa	Quang Xuong	village	Quang Thinh	4 Nov. 05	avi	...	...	66	338	...
Thanh Hoa	Quang Xuong	village	Quang Thinh	4 Nov. 05	avi	...	...	66	346	...
Thanh Hoa	Quang Xuong	village	Quang Thinh	11 Nov. 05	avi	...	...	185	370	...
Thanh Hoa	Quang Xuong	village	Quang Thinh	15 Nov. 05	avi	...	...	3,882	3,902	...
Thanh Hoa	Quang Xuong	village	Quang Trung	15 Nov. 05	avi	...	...	8	30	...
Thanh Hoa	TP. Thanh Hoa	Village	Quang Thanh	11 Nov. 05	avi	...	...	245	1,255	...
Thanh Hoa	TP. Thanh Hoa	village	Quang Thanh	22 Nov. 05	avi	...	...	4	470	...
Thanh Hoa	Trieu Son	village	Dan Quyen	14 Nov. 05	avi	...	...	9	18	...
Thanh Hoa	Trieu Son	village	Dan Quyen	22 Nov. 05	avi	...	...	8	48	...
Thanh Hoa	Trieu Son	village	Hop Ly	22 Nov. 05	avi	...	...	13	145	...
Thanh Hoa	TX. Sam Son	village	Quang Tien	14 Nov. 05	avi	...	...	14	24	...
Thanh Hoa	TX. Sam Son	village	Truong Son	22 Nov. 05	avi	...	...	15	580	...
TP. Hai Phong	An Duong	village	An Hoa	13 Nov. 05	avi	...	...	147	352	...
TP. Hai Phong	An Duong	village	An Hoa	13 Nov. 05	avi	...	...	895	3,000	...
TP. Hai Phong	An Duong	village	An Hoa	16 Nov. 05	avi	...	...	380	650	...
TP. Hai Phong	An Duong	village	An Hoa	18 Nov. 05	avi	...	...	904	2,000	...
TP. Hai Phong	An Duong	village	Dang Cuong	10 Nov. 05	avi	...	...	1,560	7,500	...
TP. Hai Phong	An Duong	village	Dang Cuong	18 Nov. 05	avi	...	...	820	4,600	...
TP. Hai Phong	An Duong	village	Dang Cuong	16 Nov. 05	avi	...	...	981	2,500	...
TP. Hai Phong	An Duong	village	Dong Thai	14 Nov. 05	avi	...	...	140	780	...
TP. Hai Phong	An Duong	village	Dong Thai	21 Nov. 05	avi	...	...	140	780	...
TP. Hai Phong	An Duong	village	Hong Phong	16 Nov. 05	avi	...	...	400	300	...
TP. Hai Phong	An Duong	village	Hong Phong	17 Nov. 05	avi	...	...	700	2,400	...
TP. Hai Phong	An Duong	village	Hong Phong	17 Nov. 05	avi	...	...	347	950	...
TP. Hai Phong	An Duong	village	Hong Phong	17 Nov. 05	avi	...	...	105	150	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
TP. Hai Phong	An Duong	village	Hong Phong	18 Nov. 05	avi	...	...	150	1,500	...
TP. Hai Phong	An Duong	village	Hong Phong	18 Nov. 05	avi	...	...	175	4,000	...
TP. Hai Phong	An Duong	village	Hong Phong	18 Nov. 05	avi	...	...	263	894	...
TP. Hai Phong	An Duong	village	Hong Phong	19 Nov. 05	avi	...	...	35	320	...
TP. Hai Phong	An Duong	village	Hong Phong	21 Nov. 05	avi	...	...	700	2,400	...
TP. Hai Phong	An Duong	village	Hong Phong	21 Nov. 05	avi	...	...	207	1,000	...
TP. Hai Phong	An Duong	village	Hong Phong	21 Nov. 05	avi	...	...	347	950	...
TP. Hai Phong	An Duong	village	Hong Phong	21 Nov. 05	avi	...	...	828	5,000	...
TP. Hai Phong	An Duong	village	Hong Thai	16 Nov. 05	avi	...	...	320	700	...
TP. Hai Phong	An Duong	village	Le Loi	15 Nov. 05	avi	...	...	569	3,502	...
TP. Hai Phong	An Duong	village	Le Loi	10 Nov. 05	avi	...	...	1,955	7,520	...
TP. Hai Phong	An Duong	village	Le Loi	12 Nov. 05	avi	...	...	450	760	...
TP. Hai Phong	An Duong	village	Le Loi	17 Nov. 05	avi	...	...	125	1,000	...
TP. Hai Phong	An Duong	village	Le Loi	17 Nov. 05	avi	...	...	80	173	...
TP. Hai Phong	An Duong	village	Le Loi	18 Nov. 05	avi	...	...	250	1,931	...
TP. Hai Phong	An Duong	village	Nam Son	16 Nov. 05	avi	...	...	230	850	...
TP. Hai Phong	An Duong	village	Nam Son	17 Nov. 05	avi	...	...	125	1,100	...
TP. Hai Phong	An Duong	village	Tan Tien	10 Nov. 05	avi	...	...	410	700	...
TP. Hai Phong	An Lao	village	Bat Trang	20 Nov. 05	avi	...	...	15	63	...
TP. Hai Phong	An Lao	village	Chien Thang	19 Nov. 05	avi	...	...	80	1,830	...
TP. Hai Phong	An Lao	village	Chien Thang	20 Nov. 05	avi	...	...	300	3,300	...
TP. Hai Phong	An Lao	village	Chien Thang	20 Nov. 05	avi	...	...	66	712	...
TP. Hai Phong	An Lao	village	My Duc	23 Nov. 05	avi	...	...	100	250	...
TP. Hai Phong	An Lao	village	Quang Hung	11 Nov. 05	avi	...	...	35	200	...
TP. Hai Phong	An Lao	village	Quang Trung	7 Nov. 05	avi	...	...	200	600	...
TP. Hai Phong	An Lao	village	Quang Trung	14 Nov. 05	avi	...	...	50	405	...
TP. Hai Phong	An Lao	village	Thai Son	19 Nov. 05	avi	...	...	53	850	...
TP. Hai Phong	An Lao	village	TT. An Lao	19 Nov. 05	avi	...	...	246	1,100	...
TP. Hai Phong	Kien An	village	Dong Hoa	15 Nov. 05	avi	...	...	120	600	...
TP. Hai Phong	Kien An	village	Dong Hoa	18 Nov. 05	avi	...	...	318	1,700	...
TP. Hai Phong	Kien An	village	Dong Hoa	20 Nov. 05	avi	...	...	41	800	...
TP. Hai Phong	Kien An	village	Dong Hoa	20 Nov. 05	avi	...	...	170	1,200	...
TP. Hai Phong	Kien An	village	Dong Hoa	21 Nov. 05	avi	...	...	318	1,700	...
TP. Hai Phong	Kien An	village	Dong Hoa	22 Nov. 05	avi	...	...	152	650	...
TP. Hai Phong	Kien An	village	Nam Son	19 Nov. 05	avi	...	...	50	350	...
TP. Hai Phong	Kien An	village	Nam Son	21 Nov. 05	avi	...	...	515	3,000	...
TP. Hai Phong	Kien An	village	Phu Lien	15 Nov. 05	avi	...	...	400	1,500	...
TP. Hai Phong	Kien An	village	Phu Lien	22 Nov. 05	avi	...	...	25	50	...
TP. Hai Phong	Kien An	village	Phu Lien	22 Nov. 05	avi	...	...	26	30	...
TP. Hai Phong	Kien An	village	Van Dau	22 Nov. 05	avi	...	...	425	2,200	...
TP. Hai Phong	Kien Thuy	village	Anh Dung	10 Nov. 05	avi	...	...	725	3,300	...
TP. Hai Phong	Kien Thuy	village	Da Phuc	16 Nov. 05	avi	...	...	20	20	...
TP. Hai Phong	Kien Thuy	village	Dai Dong	12 Nov. 05	avi	...	...	800	800	...
TP. Hai Phong	Kien Thuy	village	Doan Xa	16 Nov. 05	avi	...	...	40	40	...
TP. Hai Phong	Kien Thuy	village	Hoa Nghia	7 Nov. 05	avi	...	...	700	21,847	...
TP. Hai Phong	Kien Thuy	village	Hop Duc	15 Nov. 05	avi	...	...	50	50	...
TP. Hai Phong	Kien Thuy	village	Hung Dao	13 Nov. 05	avi	...	...	81	806	...
TP. Hai Phong	Kien Thuy	village	Hung Dao	16 Nov. 05	avi	...	...	390	840	...

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 outbreaks				
						susceptible	cases	deaths	destroyed	slaughtered
TP. Hai Phong	Kien Thuy	village	Hung Dao	17 Nov. 05	avi	...	...	695	1,125	...
TP. Hai Phong	Kien Thuy	village	Hung Dao	17 Nov. 05	avi	...	...	460	1,100	...
TP. Hai Phong	Kien Thuy	village	Hung Dao	19 Nov. 05	avi	...	...	306	5,320	...
TP. Hai Phong	Kien Thuy	village	Kien Quoc	15 Nov. 05	avi	...	...	150	150	...
TP. Hai Phong	Kien Thuy	village	Ngu Doan	15 Nov. 05	avi	...	...	109	740	...
TP. Hai Phong	Kien Thuy	village	Ngu Doan	15 Nov. 05	avi	...	...	40	2367	...
TP. Hai Phong	Kien Thuy	village	Tan Phong	15 Nov. 05	avi	...	...	100	100	...
TP. Hai Phong	Kien Thuy	village	Tu Son	15 Nov. 05	avi	...	...	600	600	...
TP. Hai Phong	Le Chan	village	Du Hang	16 Nov. 05	avi	...	...	53	1,440	...
TP. Hai Phong	Le Chan	village	Vinh Niem	15 Nov. 05	avi	...	...	129	3423	...
TP. Hai Phong	Le Chan	village	Vinh Niem	18 Nov. 05	avi	...	...	51	2,606	...
TP. Hai Phong	Ngo Quyen	village	Dang Giang	16 Nov. 05	avi	...	...	50	1,000	...
TP. Hai Phong	Thuy Nguyen	village	Lien Khe	6 Nov. 05	avi	...	...	187	2,700	...
TP. Hai Phong	Thuy Nguyen	village	TT. Minh Duc	18 Nov. 05	avi	...	...	195	2,250	...
TP. Hai Phong	Thuy Nguyen	village	TT. Minh Duc	19 Nov. 05	avi	...	...	30	30	...
TP. Hai Phong	Thuy Nguyen	village	TT. Minh Duc	19 Nov. 05	avi	...	...	15	50	...
TP. Hai Phong	Thuy Nguyen	village	TT. Minh Duc	20 Nov. 05	avi	...	...	50	300	...
TP. Hai Phong	Thuy Nguyen	village	TT. Minh Duc	22 Nov. 05	avi	...	...	5	205	...
TP. Hai Phong	Tien Lang	village	Tien Hung	13 Nov. 05	avi	...	...	60	171	...
TP. Hai Phong	Tien Lang	village	Tien Thanh	16 Nov. 05	avi	...	...	70	1,500	...
TP. Hai Phong	Vinh Bao	village	Dung Tien	15 Nov. 05	avi	...	...	50	150	...
TP. Hai Phong	Vinh Bao	village	Thang Thuy	9 Nov. 05	avi	...	...	100	880	...
TP. Hai Phong	Vinh Bao	village	Thang Thuy	16 Nov. 05	avi	...	...	35	800	...
TP. Hai Phong	Vinh Bao	village	Thang Thuy	18 Nov. 05	avi	...	...	75	460	...
TP. Hai Phong	Vinh Bao	village	Tran Duong	16 Nov. 05	avi	...	...	480	2,610	...
TP. Hai Phong	Vinh Bao	village	Tran Duong	22 Nov. 05	avi	...	...	70	546	...
Vinh Phuc	Tam Duong	village	An Hoa	27 Oct. 05	avi	...	...	540	29,330	...
Vinh Phuc	Tam Duong	village	Huong Dao	10 Nov. 05	avi	...	...	152	9,414	...
Vinh Phuc	Vinh Tuong	village	Tu Trung	14 Nov. 05	avi	...	...	63	190	...

Description of affected population in the new outbreaks: small village poultry (chickens and ducks).

Diagnosis:

Laboratory where diagnosis was made	Diagnostic tests used	Dates	Results
Regional Veterinary Centre, Ho Chi Minh City	PCR ⁽¹⁾	4 Oct. 2005	positive
National Veterinary Diagnosis Centre	PCR ⁽¹⁾ , virus isolation	7, 23, 28 Oct. 2005 and 3, 5, 10, 17, 19 Nov. 2005	positive

Source of outbreaks: unknown or inconclusive.

Control measures applied:

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

Vaccination prohibited: no.

Final report: no.

(1) PCR: polymerase chain reaction

Note by the OIE Animal Health Information Department: the Department of Animal Health of Vietnam has informed the OIE Central Bureau that it will soon be providing the OIE with a report on the highly pathogenic avian influenza situation in Vietnam for the period from 1 July to 30 September 2005.

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HIGHLY PATHOGENIC AVIAN INFLUENZA IN THAILAND Follow-up report No. 78

Information received on 2 December 2005 from Dr Yukol Limlamthong, Director General, Department of Livestock Development (DLD), Ministry of Agriculture and Cooperatives, Bangkok:

End of previous report period: 24 November 2005 (see *Disease Information*, **18** [47], 457, dated 25 November 2005).

End of this report period: 1 December 2005.

No new outbreaks of highly pathogenic avian influenza were reported during the week under report.

Final report: no.

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SCRAPIE IN THE FALKLAND ISLANDS/MALVINAS

(Disease never reported before in the Falkland Islands/Malvinas).

IMMEDIATE NOTIFICATION REPORT

Information received on 29 November 2005 from Dr Debby Reynolds, Director General for Animal Health and Welfare, Department for Environment, Food and Rural Affairs (DEFRA), London:

Report date: 4 November 2005.

Reason for immediate notification: first occurrence of a listed disease or infection in a country or zone/compartment.

Date of first confirmation of the event: 1 November 2005.

Date of start of the event: 12 October 2005.

Clinical disease: yes.

Nature of diagnosis: clinical and laboratory.

Details of outbreak:

Name of the location	Type of epidemiological unit	Date of start of the outbreak	Species	Number of animals in the outbreak				
				susceptible	cases	deaths	destroyed	slaughtered
Cape Dolphin (East Falkland)	farm	12 Oct. 2005	ovi	3,368*	1	0	1	0
			bov	...	0	0	0	0

* as of 31 May 2005

Description of affected population: a 7-year-old ewe kept with other adult ewes in a ewe 'corp' ready for lambing which starts in October 2005. All lambing occurs outside in lambing paddocks. The affected animal was homebred. The farm is a family farm of 4,705 hectares.

The sheep was discovered by the owner of the premises and a staff member of the Department of Agriculture while driving through the property. Whereas all the other sheep ran away from the vehicle, this animal stood still and appeared to be unaware of the vehicle's presence. It was in very poor body condition and was constantly nibbling at its feet. It was imminently due to lamb but at post-mortem the lamb was poorly developed. Lungs were collapsed – looked like pneumonia.

Diagnosis: atypical case.

Laboratory where diagnostic tests were performed	Species examined	Diagnostic tests used	Date	Results
Veterinary Laboratories Agency (VLA), Weybridge, United Kingdom (OIE Reference Laboratory for scrapie)	ovi	histopathology	1 Nov. 2005	negative
		immunostaining for PrP using VLA monoclonal antibody R145 at 1:500	1 Nov. 2005	positive

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

Final report: yes.

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* *

AVIAN INFLUENZA IN ZIMBABWE
Suspected outbreaks

IMMEDIATE NOTIFICATION REPORT

Information received on 30 November 2005 from Dr Stuart K. Hargreaves, Director of Veterinary Services, Ministry of Agriculture, Harare:

Report date: 28 November 2005.

Reason for immediate notification: first occurrence of a listed disease or infection in a country (depending on the results of pathogenicity tests).

Identification of agent: avian influenza virus serotype H5 (neuraminidase type is still to be determined).

Date of first confirmation of the event: 28 November 2005.

Date of start of the event: 28 November 2005.

Nature of diagnosis: laboratory.

Details of (suspected) outbreaks:

First administrative division (Province)	Lower administrative division (District)	Type of epidemiological unit	Name of the location	Latitude	Longitude	Species	Number of animals in the (suspected) outbreaks				
							susceptible	cases	deaths	des-troyed	slaugh-tered
Matebeleland North	Umguza/Bubi	farm	Mimosa	19° 55' S	28° 25' E	avi	10,000	...	...	...	...
		farm	Dollar Block	19° 27' S	28° 50' E	avi	6,000	...	...	...	...

Description of affected population: slaughter ostriches.

Diagnosis:

Laboratory where diagnostic tests were performed	Samples examined	Diagnostic tests used	Date	Results
Central Veterinary Laboratory, Harare	ostrich sera	haemagglutination inhibition test	28 Nov. 2005	32/150 positive

Origin of infection: unknown or inconclusive.

Control measures undertaken:

- quarantine;
- movement control inside the country;
- screening.

Treatment of affected animals: no.

Vaccination prohibited: yes.

Note by the OIE Animal Health Information Department: highly pathogenic avian influenza has never been reported in Zimbabwe.

NEWCASTLE DISEASE IN DENMARK Follow-up report No. 2

Information received on 30 November 2005 from Dr Preben Willeberg, Chief Veterinary Officer, Danish Veterinary and Food Administration, Søborg:

End of previous report period: 4 November 2005 (see *Disease Information*, **18** [44], 417, dated 4 November 2005).

End of this report period: 30 November 2005.

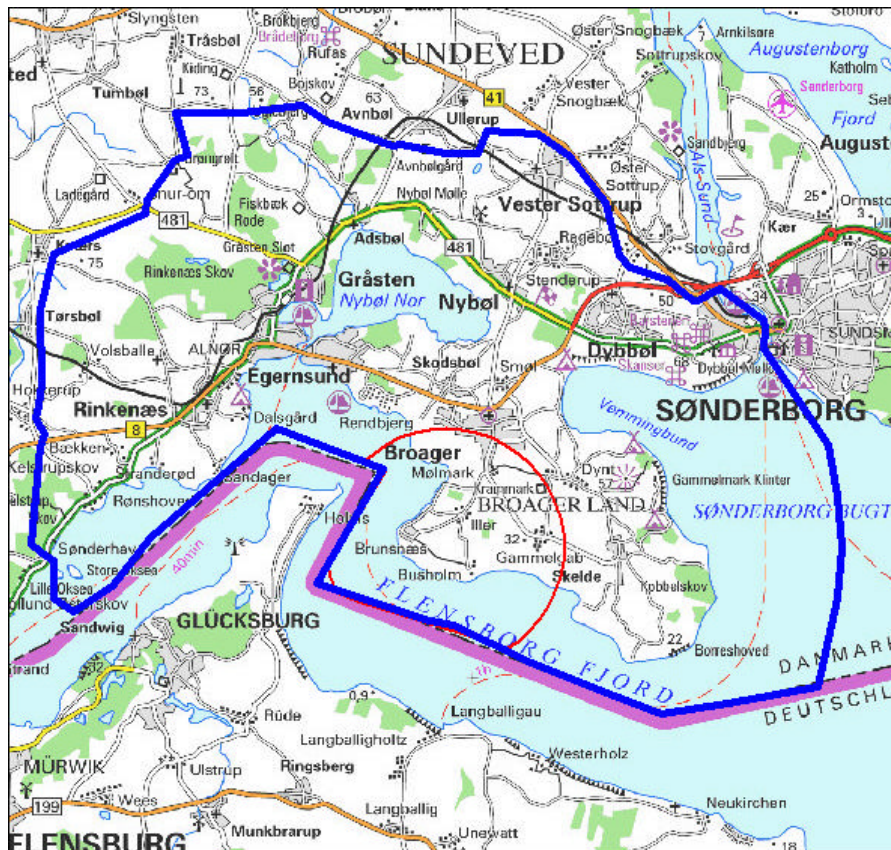
Date of first confirmation of the event: 21 October 2005.

Date of start of the event: 14 October 2005.

There have been no new outbreaks of Newcastle disease since the outbreak that was reported in the immediate notification report on 21 October 2005.

The regional veterinary authorities visited and clinically inspected all poultry holdings (i.e. 2 commercial and 24 hobby holdings) within the protection zone around the Newcastle disease-affected holding without finding any clinical signs of Newcastle disease.

The protection zone was lifted as of 25 November 2005, 21 days after the approval of the preliminary cleaning and disinfection. The protection zone is now a part of the surveillance zone (the area marked with a blue borderline on the map below).



In the surveillance zone the regional Veterinary Service has registered 3 commercial and 187 hobby holdings (in addition to the holdings in the protection zone).

The Danish Veterinary and Food Administration expects the surveillance zone to be lifted as of 4 December 2005.

Origin of infection: unknown or inconclusive.

Final report: no.

MISCELLANEOUS: AVIAN INFLUENZA IN CANADA
Follow-up report No. 1

Information received on 28 November 2005 from Dr Brian Evans, Executive Director, Canadian Food Inspection Agency, Ottawa:

End of previous report period: 20 November 2005 (see *Disease Information*, **18** [47], 458, dated 25 November 2005).

End of this report period: 28 November 2005.

Identification of agent: influenza virus type A, serotype H5N2, low pathogenic North American strain.

Date of first confirmation of the event: 18 November 2005.

Date of start of the event: 17 November 2005.

Clinical disease: no.

Nature of diagnosis: laboratory.

Screening of the owner's four other commercial operations found a second operation, within the 5-km surveillance zone, to be positive, and three locations to be negative.

Details of outbreak (corrected information):

First administrative division (province)	Lower administrative division (district)	Type of epidemiological unit	Species	Number of animals in the outbreak				
				susceptible	cases	deaths	destroyed	slaughtered
British Columbia	Chilliwack	farm	avi	55,800	...	...	...	...

Description of affected population (corrected information): meat ducks and geese.

Diagnosis:

Laboratories where diagnostic tests were performed	Diagnostic tests used	Date	Results
Provincial Agriculture	- PCR ⁽¹⁾ (matrix); - real-time PCR; - conventional PCR thermocycling (H5).	18 Nov. 2005	positive
National Centre for Foreign Animal Disease (NCFAD), Winnipeg	(H5)RT-PCR ⁽²⁾ on cloacal swab and allantoic fluids	20 Nov. 2005	positive for influenza virus type A serotype H5
	RNA molecular analysis	20 Nov. 2005	low pathogenic North American sequence
	N type molecular diagnostic as well as conventional methods	25 Nov. 2005	serotype N2
	haemagglutination and haemagglutination inhibition on allantoic fluids	pending	pending

Source of outbreak or origin of infection: under investigation. Contact with migratory waterfowl cannot be excluded.

Control measures undertaken:

- Quarantine of the 'source farm' and the owner's four other commercial operations.
- Quarantines imposed and movement controls on all the other 75 commercial units within the 5-km surveillance zone around the 'source farm'.
- Culling of birds in the 'source farm' (completed on 22 November 2005).
- Culling of birds in the second positive establishment (completed on 23 November 2005).
- Suspension of export certification from the 5-km zone is being maintained.

Vaccination prohibited: no.

Other details/comments:

Results of sampling conducted in the Province of British Columbia under a national migratory waterfowl sampling and surveillance programme for avian influenza has demonstrated the presence of H5N2 and H5N9 serotypes, all of which have been determined to be low pathogenic and consistent with historically reported North American strains with significant structural differences from the Asian strain of current international animal and human health concern.

Final report: no.

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

* Note by the OIE Animal Health Information Department: this disease is included in the new OIE list of diseases approved in May 2005 and due to come into force in January 2006.

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