

## Highly Pathogenic Avian Influenza H5 events

12 October - 12 November 2009



Note: A map of the events during the latest 6 months is shown on the last page.

## WHAT'S NEW in this issue?

**AFRICAN REGION****Egypt**

- Confirmed H5 HPAI outbreaks in poultry (Beni Suef, Dakahlia and Menia)

**ASIAN REGION****Cambodia**

- Negative results from AI surveillance

**China**

- Results from H5N1 HPAI surveillance

**EUROPEAN REGION****Russian Federation**

- Confirmed case of H5N1 AI infection in wild bird (Moskovskaya)

**AFRICAN REGION****Côte d'Ivoire****OFFICIAL**

30/10/09 – Denied cases of H5N1 AI infection in wild birds, Abidjan (Reference Laboratory)

The final results concerning the first batch of samples submitted from Côte d'Ivoire to the AI Reference Laboratory in Padova, Italy, tested negative by molecular tests and virus isolation (two passages in SPF embryonated eggs) for AI and Newcastle disease.

16 & 29/10/09 – Additional information on confirmed cases of H5N1 AI infection in wild birds, Abidjan (Reference Laboratory)

Regarding the previously confirmed case of H5N1 infection in crows (reported on 16/10/09 – OIE), preliminary tests were conducted by the OIE/FAO Reference Laboratory in Padova on the tissue samples (crows). All samples were real time RT-PCR negative for type A influenza and for H5 subtype. RT-PCR for APMV-1 (Newcastle disease virus) and West Nile virus were also negative. Virus isolation is in progress and no

**NOTE: UPDATED INFORMATION IS INDICATED IN RED**

mortality in SPF embryonated eggs observed 72 hours after inoculation. Allantoic fluids at the end of the first passage tested negative for AI and ND (HA/NI test) and by virus particles (Electron microscopy).

## Egypt

### OFFICIAL

#### 8 & 11/11/09 - Confirmed H5 HPAI outbreaks in poultry, Beni Suef, Dakahlia and Menia (National authorities)

H5 HPAI outbreaks occurred in:

- Beshla Village, Mit Ghamr District, Dakahlia Governorate. The birds (36 backyard ducks and chickens) were sampled on 5 November 2009 as part of the Participatory Disease Surveillance (PDS) activities and tested positive on 6 November 2009. The village reported the 72nd confirmed H5N1 human case on May 2009. The affected house had introduced new Peking ducklings (4-week old), after which mortalities started. However, ducklings were apparently healthy on the date of sampling. A history of massive spread of poultry deaths in the village since March 2009 has been reported by the families, source of the index outbreak is unknown. Part of the infected flock had been vaccinated on May 2009. The clinical signs were not severe in the vaccinated birds (only drop in egg production, ruffled feathers and few sudden deaths). Mortality was high with cyanosis in head and wattles in the unvaccinated chickens (3 months old). The outbreak affected 2 neighboring houses only (open rooftop system).

- Elawawna Village, Ehnassia District, Beni Suef Governorate. The birds (backyard ducks, turkeys and chickens, where only the chickens had been vaccinated) were sampled on 7 November 2009 as part of the PDS activities and tested positive on 8 November 2009. The mortality started in a turkey provided as gift from another family in the same village. The turkey died first and a duck developed nervous manifestations. The layer chickens were vaccinated and were apparently healthy at the date of sampling and still alive with neither illness nor mortality until the day of culling. The poultry at the household that provided the turkey as a gift (flock of pigeons and turkeys only) tested negative by PCR for HPAI. It was concluded that the vaccinated chickens were previously infected and shedding the HPAI virus, which reflects the risk of silent spread of HPAI unless there is an efficient surveillance program to monitor the virus circulation in vaccinated flocks.

- Bani Ahmed Elgharbia Village, Menia District, Menia Governorate. The birds (37 backyard unvaccinated ducks, geese and chickens) were sampled on 8 November 2009 as part of the PDS activities and tested positive on 8 November 2009.

<http://www.saidr.org/en/animals.php>

#### 1 & 4/10/09 - Confirmed H5 HPAI outbreaks in poultry, Dakahlia, Fayoum and Menofia (National authorities)

H5 HPAI outbreaks occurred in:

- Senores City, Senoures District, Fayoum Governorate. The birds (nine backyard unvaccinated ducks and chickens) were sampled on 27 October 2009 as part of the Participatory Disease Surveillance (PDS) activities and tested positive on 28 October 2009. Cases were detected following rumors in the area. The source of infection was determined to be geese bought from a live bird market.

- Kahk Quebly Village, Youssef el Sedik District, Fayoum Governorate. The birds (91 backyard unvaccinated ducks and chickens) were sampled on 29 October 2009 as part of the surveillance programme and tested positive on 30 October 2009.

- El Hagara Village, Senoures District, Fayoum Governorate. The birds (90 backyard unvaccinated ducks and chickens) were sampled on 29 October 2009 as part of the PDS activities and tested positive on 30 October 2009. The source of outbreak was young grower chickens bought from nurseries through peddlers.

- Zawyet Razin Village, Menouf District, Menofia Governorate. The birds (four backyard unvaccinated ducks and chickens) were sampled on 29 October 2009 as part of the PDS activities and tested positive on 30 October 2009. The outbreak massively spread in the village but the source is unknown.

- El Quebab Village, Dekernes District, Dakahlia Governorate. The birds (16 backyard unvaccinated chickens) were sampled on 2 November 2009 as part of the PDS activities and tested positive on 3 November 2009. The source was deemed to be turkeys bought from live bird market.

## ASIAN REGION

### Cambodia

#### OFFICIAL

##### 09/11/09 – Negative results from AI surveillance (UN System)

From 23 to 27 October 2009, the animal health hotline at the National Veterinary Research Institute received three calls, one of which reported about sick and dead poultry in Prey Veng Province. The team of provincial and district veterinarians went to investigate and decided that avian influenza was not the cause of the illness and death in poultry. Other callers asked about the transmission routes of AI.

From 27 October to 6 November, 2009, the animal health hotline at the National Veterinary Research Institute received five calls, one of which reported sick and dead poultry in Preah Sihanouk Province. A team of provincial and district veterinarians conducted their investigation and decided that avian influenza was not the cause of the illness and death. Other callers asked general questions about AI.

### China

#### OFFICIAL

##### 04/11/09 – Results from H5N1 HPAI surveillance (National authorities)

The Official Veterinary Bulletin released by the Ministry of Agriculture covering surveillance activities in July 2009 shows that virus was detected in seven chickens, 19 ducks and two geese in Guangdong (including Shenzhen), Fujian (Xiamen) and Chongqing.

<http://www.aqri.gov.cn/ztlz/syqb/P020091028512360041084.pdf>  
(page 15)

### Indonesia

#### OFFICIAL

##### 04/11/09 – Participatory Disease Surveillance and Response (PDSR) results from HPAI surveillance (FAO officer)

In September, PDSR officers visited 2.7% (1,738 out of 64,647) of villages under surveillance. These visits were concentrated in provinces such as Bali (11.0%) and DI Yogyakarta (17.1%). Six percent of the villages visited were Report visits. The cumulative surveillance coverage of villages over the last six months was 16.8% (10,882 out of 64,647) and varied across provinces. Surveillance visits for the six months were concentrated in Bali and DI Yogyakarta where more than 44% of all villages were visited. From May 2008 to the end of September 2009, 41.8% of villages under surveillance have been visited. Infected villages detected: The percentage of villages classified as infected during September was 6.7% (117/1,738) of villages visited. This was similar to the figure for August (6.8%) and lower than the cumulative figure for the last six months (10.5%). Most infected villages were concentrated in Jawa Barat (16.3%), DI Yogyakarta (14.7%) and Lampung (10.6%) during the month of September, and in DI Yogyakarta (34.8%), Lampung (20.9%) and Sulawesi Tenggara (22.0%) during the last six month's period. In terms of village status, in comparison with the situation in August, small reductions were observed in the

percentage of villages classified as 'Infected', 'Suspect' and 'Controlled' whilst there was a small increase in the 'Apparently free' category.

## Viet Nam

### OFFICIAL

31/10 & 5/11/09 – Confirmed H5N1 HPAI outbreaks in poultry, Dien Bien (National authorities)

According to the State Department of Animal Health (SDAH) report, from 21 to 23 October 2009, sick/dead poultry were detected in seven small raising households in Group No.2, Noong Luong Commune and two households in Group No.12b, Thanh Yen Commune, Dien Bien District. The laboratory test later confirmed that the sick/dead poultry were H5N1–positive. Dien Bien SDAH and local authority have applied all required preventive and control measures. As of 24 October 2009, 2,283 poultry in the affected area were culled.

This is the first H5N1 HPAI outbreak report officially reported in Viet Nam since 22 June 2009.

[http://www.cucthuy.gov.vn/index.php?option=com\\_content&task=view&id=1682&Itemid=1](http://www.cucthuy.gov.vn/index.php?option=com_content&task=view&id=1682&Itemid=1)

[http://www.oie.int/wahis/public.php?page=single\\_report&pop=1&reportid=8617](http://www.oie.int/wahis/public.php?page=single_report&pop=1&reportid=8617)

## EUROPEAN REGION

### Russian Federation

#### OFFICIAL

05/11/09 - Confirmed case of H5N1 AI infection in wild bird, Moskovskaya (World Organisation for Animal Health - OIE)

A *Columba livia* (rock dove) found sick in on 26 October 2009 in a depression on a balcony of a block of flats in Pushchino, Serpukhov, Moskovskaya Oblast. It was sent to the Central Veterinary Laboratory, Moscow, where it tested positive.

[http://www.oie.int/wahis/public.php?page=single\\_report&pop=1&reportid=8619](http://www.oie.int/wahis/public.php?page=single_report&pop=1&reportid=8619)

## SUMMARY OF CONFIRMED H5N1 HPAI OUTBREAKS IN THE AFRICAN REGION

Country/Territory	First outbreak/case	Last outbreak/case	Affected populations	Human cases (cases/deaths)
Benin	Reported: 07/11/07 Oueme, Adjara	Reported: 15/12/07 Oueme, Avrankou	domestic poultry	no
Burkina Faso	Observed: 02/03/06 Reported: 04/03/06 Centre-ouest, Sanguie	Reported: 20/05/06 Centre-ouest, Sanguie	domestic poultry	no
Cameroon	Observed: 21/02/06 Reported: 12/03/06 Extreme-Nord, Diamare	Reported: 28/03/06 Nord, Benoue	domestic poultry, wild birds	no
Côte d'Ivoire	Observed: 30/03/06 Reported: 25/04/06 Bas Sassandra, Sassandra	Reported: 21/05/07 N'zi Comoe, Daoukro	domestic poultry	no
Djibouti	Reported: 24/04/06 Djibouti, Jibuti	Reported: 24/04/06 Djibouti, Jibuti	domestic poultry	1/0
Egypt	Observed: 17/02/06 Reported: 20/02/06 Qina	Observed: 08/11/09 Reported: 11/11/09 Menia	domestic poultry	87/27
Ghana	Reported: 21/04/07 Greater-Accra region, Tema	Reported: 13/06/07 Volta, Ketu	domestic poultry	no
Niger	Observed: 06/02/06 Reported: 27/02/06 Zinder, Magaria	Observed: 02/05/06 Reported: 24/05/06 Maradi, Madarounfa	domestic poultry	no
Nigeria	Observed: 16/01/06 Reported: 05/02/06 Kaduna, Igabi	Observed: 22/07/08 Reported: 25/07/08 Kano and Katsina	domestic poultry	1/1
Sudan	Observed: 25/03/06 Reported: 18/04/06 Al Jazeera East, Al Jazeera	Observed: 29/08/06 Reported: 31/08/06 Bahr Al Jabal, Bahr Al Jabal	domestic poultry	no
Togo	Observed: 15/06/07 Reported: 22/06/07 Maritime, Lacs	Observed: 16/09/08 Reported: 18/09/08 Maritime, Lacs	domestic poultry	no

## SUMMARY OF CONFIRMED H5N1 HPAI OUTBREAKS IN THE ASIAN REGION

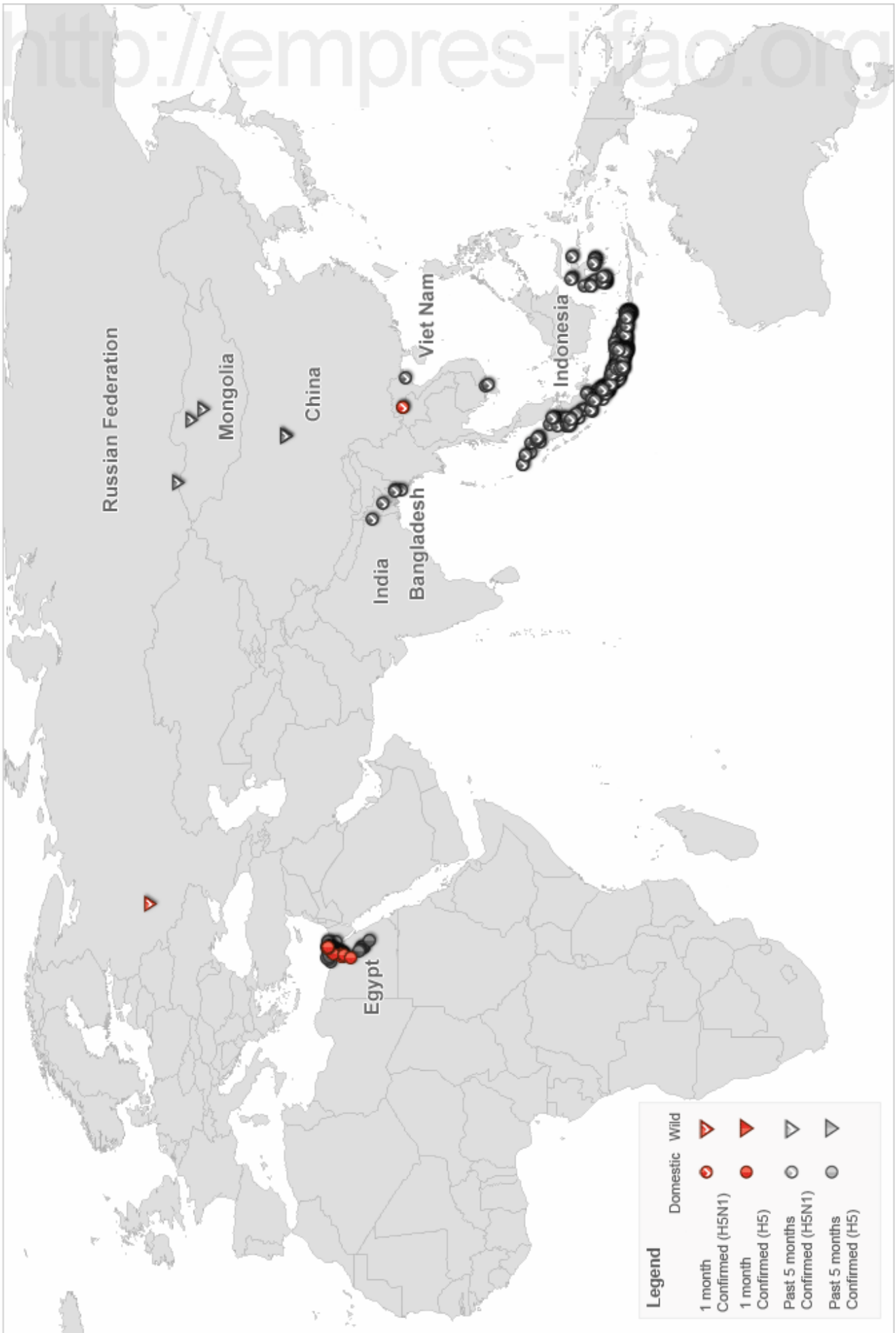
Country/Territory	First outbreak/case	Latest outbreak/case	Affected populations	Human cases (cases/deaths)
Afghanistan	Observed: 02/03/06 Reported: 24/03/06 Nangarhar, Jalalabad	Reported: 12/09/07 Kandahar, Daman	domestic poultry	no
Bangladesh	Reported: 22/02/07 Dhaka, Dhaka	Observed: 29/08/09 Reported: 02/09/09 Chittagong	domestic poultry	1/0
Cambodia	Reported: 12/01/04 Phnom Penh, Tuol Kouk	Observed: 15/12/08 Reported: 17/12/08 Kandal	humans, domestic poultry	8/7
China	Observed: 20/01/04 Reported: 26/01/04 Guangxi Zhuangzu Zizhiqu	Observed: 26/05/09 Reported: 04/06/09 Qinghai	wild birds, domestic poultry	38/25
Hong Kong SAR, China	Observed: 19/01/04 Reported: 26/01/04 Kowloon	Observed: 27/04/09 Reported: 29/04/09 Tuen Mun	wild birds, domestic poultry	no
India	Observed: 27/01/06 Reported : 20/02/06 Nandurbar, Maharashtra	Observed: 20/05/09 Reported: 28/05/09 West Bengal	humans, domestic poultry	no
Indonesia	Reported: 02/02/04 Jawa Barat, Lebak	Observed: 28/09/09 Reporting: 20/10/09 Java Tengah	domestic poultry,	141/115
Iran (Islamic Republic of)	Observed: 02/02/06 Reported: 07/02/06 Gilan, Someehsara	Reported: 10/01/08 Mazandaran, Neka	wild birds, domestic poultry	no
Iraq	Observed: 18/01/06 Reported: 02/02/06 As Sulaymaniyah, Rania	Observed: 01/02/06 Reported: 10/02/06 Missan, Amara	domestic poultry, domestic mammal	3/2
Israel	Observed: 16/03/06 Reported: 04/04/06 Jerusalem	Observed: 27/12/07 Reported: 01/01/08 Haifa	domestic poultry	no
Japan	Reported: 28/12/03 Yamaguti, Atootyoo	Observed: 08/05/08 Reported: 01/06/08 Aomori	domestic poultry, wild birds	no
Jordan	Reported: 23/03/06 Ajloun, Ajloun	Reported: 23/03/06 Ajloun, Ajloun	domestic poultry	no
Kazakhstan	Observed: 22/07/05 Reported: 02/08/05 Pavlodarskaya, Irtishskiy	Observed: 10/03/06 Reported: 21/03/06 Mangistauskaya, Aqtau City area	domestic poultry, wild birds	no
Kuwait	Reported: 25/02/07 Al Farnawiyah	Reported: 23/04/07 Al Ahmadi	wild birds, domestic poultry, zoo birds	no
Lao People's Democratic Republic	Observed: 15/01/04 Reported: 27/01/04 Sayabouri, Boten	Observed: 05/02/09 Reported: 17/02/09 Phongsaly	domestic poultry	2/2
Malaysia	Observed: 07/08/04 Reported: 17/08/04 Tumpat, Kelantan	Reported: 02/06/07 Selangor Kuala, Selangor	domestic poultry	no
Mongolia	Observed: 02/08/05 Reported: 08/08/05 Hovsgol, Alag-Erdene	Observed: 27/07/09 Reported: 10/08/09 Arkhangai	wild birds	no
Myanmar	Observed: 08/03/06 Reported: 13/03/06 Mandalay, Meikthila	Reported: 23/12/07 Shan (S), Loilem	domestic poultry	1/0
Nepal	Observed: 08/01/09 Reported: 16/01/09 Jhapa, Mechi	Observed: 17/02/09 Reported: 20/02/09 Jhapa, Mechi	domestic poultry	no
Pakistan	Reported: 27/02/06 NWFP, Charsadda	Observed: 17/06/08 Reported: 22/06/08 NWFP, Swabi	domestic poultry	3/1
Republic of Korea	Reported: 10/12/03 Chungchongbuk-do,	Observed: 12/05/08 Reported: 20/05/08 Kyongsangnam-do	domestic poultry	no
Saudi Arabia	Observed: 10/11/05 Reported: 11/11/05 Eastern Province	Reported: 29/01/0 Riyad	domestic poultry, wild birds	no
Thailand	Reported: 23/01/04 Suphanburi, Song Phi Nong	Observed: 10/11/08 Reported: 17/11/08 Uthai Thani, Nong Chang	domestic poultry	25/17
Viet Nam	Observed: 27/12/03 Reported: 09/01/04 Long An, Chau Thanh (Long An)	Observed: 23/10/09 Reported: 31/10/09 Dien Bien	domestic poultry	111/56
West Bank and Gaza Strip	Reported: 22/03/06 Tubas	Reported: 22/03/06 Tubas	domestic poultry	no

## SUMMARY OF CONFIRMED H5N1 HPAI OUTBREAKS IN THE EUROPEAN REGION

Country /Territory	First outbreak/case	Latest outbreak/case	Affected populations	Human cases (cases/deaths)
Albania	Observed: 16/02/06 Reported: 07/03/06 Sarande, Aliko	Observed:09/03/06 Reported: 24/03/06 Tirane, Peze	domestic poultry	no
Austria	Observed: 10/02/06 Reported: 23/02/06 Steiermark, Graz	Observed: 22/03/06 Reported: 27/03/06 Oberosterreich, Perg	wild birds	no
Azerbaijan	Observed: 02/02/06 Reported: 03/02/06 Baku	Observed: 18/03/06 Reported: 23/03/06 Tauz	wild birds, domestic poultry	8/5
Bosnia and Herzegovina	Observed: 16/02/06 Reported: 20/02/06 Srednjobosan ski	Observed:16/02/06 Reported: 20/02/06 Srednjobosan ski	wild birds	no
Bulgaria	Observed: 31/01/06 Reported: 04/02/06 Vidin, Vidin	Reported: 25/05/06 Silistra, Glavititca	wild birds, domestic poultry	no
Croatia	Observed: 21/10/05 Reported: 22/10/05 Virovitica-p odravina	Observed: 24/03/06 Reported: 12/04/06 Grad, Zagreb	wild birds	no
Czech Republic	Observed: 25/03/06 Reported: 29/03/06 Jihocesky, Ceske Budejovice	Reported: 11/07/07 Vychodocesky, Usti nad Orlici	wild bird, domestic poultry	no
Denmark	Observed:22/03/06 Reported: 24/04/06 Fyn, Aeroeskoebing	Reported: 18/05/06 Fyn, Kerteminde	wild birds, domestic poultry	no
France	Observed:17/02/06 Reported: 20/02/06 Rhone Alpes, Ain	Reported: 09/08/07 Lorraine, Moselle	wild birds,	no
Germany	Reported: 06/07/07 Bayern, Mittelfranken	Observed: 10/01/09 Reported: 10/03/09 Bavaria	wild birds, domestic poultry	no
Greece	Reported: 30/01/06 Kentriki Makedonia, Pierias	Observed: 04/03/06 Reported: 27/03/06 Kentriki Makedonia, Thessalonikis	wild birds	no
Hungary	Reported: 04/02/06 Bacs-kiskun	Reported: 29/01/07 Csongrad	wild birds	no
Italy	Observed: 01/02/06 Reported: 11/02/06 Calabria Vibo, Valentia	Reported: 19/02/06 Umbria, Perugia	wild birds	no
Poland	Reported: 15/02/06 Pomorskie, Nowy Dwor Gdanski	Reported: 22/12/07 Lodzkie, Poddebice	wild birds, domestic poultry	no
Romania	Reported: 07/10/05 Tulcea	Reported: 06/12/07 Tulcea	wild birds, domestic poultry, cat	no
Russian Federation	Observed: 15/07/05 Reported: 22/07/05 Novosibirska ya Oblast	Observed:26/10/08 Reported: 05/11/08 Moskovskaya Oblast (wild bird)	domestic poultry, wild birds	no
Serbia	Reported: 28/02/2006 Zapadno-backi	Reported: 15/03/2006 Zlatiborski	wild birds, domestic poultry	no
Slovakia	Reported: 17/02/06 Slovakia, Bratislava	Reported: 18/02/06 Slovakia, Trnava	wild birds	no
Slovenia	Observed:09/02/06 Reported: 14/02/06 Podravska, Maribor	Observed:25/03/06 Reported: 30/03/06 Podravska, Maribor	wild birds	no
Spain	Reported: 07/07/06 Pais Vasco, Alava	Reported: 07/07/06 Pais Vasco, Alava	wild birds	no
Sweden	Reported: 28/02/06 Kalmar Laen, Oskarshamn	Observed:26/04/06 Reported: 27/04/06 Stockholms Laen, Haninge	wild birds	no
Switzerland	Reported: 26/02/06 Geneve	Observed: 22/03/06 Reported: 28/03/06 Luzern	wild birds	no
Turkey	Observed: 05/10/05 Reported: 09/10/05 Balikesir, Manyas	Observed: 09/03/08 Reported: 18/03/08 Edirne, Merkez	domestic poultry, wild birds	12/4
Ukraine	Reported: 02/12/05 Krym	Observed: 11/02/08 Reported: 13/02/08 Krym	wild birds, domestic poultry	no
United Kingdom	Observed: 05/04/06 Reported: 06/04/06 Scotland, Central	Reported: 29/02/08 England, Dorsetshire	wild birds, domestic poultry	no

Highly Pathogenic Avian Influenza H5 confirmed outbreaks

12 May - 12 November 2009



## CONTACTS

The HPAI Situation Update compiles data on Highly Pathogenic Avian Influenza outbreaks. It is updated weekly, published in PDF format and automatically sent by email to a list of subscribers. We have received many requests to join the *HPAI Situation Update* distribution list. While we highly value the growing interest and wider distribution, it is hard for us to manage the increasing list of contacts. We would therefore appreciate if the contacts in each organisation/country could forward the document to all relevant people within their organisation/country.

The ECTAD HPAI Situation Update has been prepared by the EMPRES (Emergency Prevention Programme for Transboundary Animal Diseases) / GLEWS (Global Early Warning for Major Animal Diseases, including Zoonoses) team of the Animal Production and Health Division of the Food and Agriculture Organization of the United Nations.

Additional information on the outbreaks can be found in EMPRES-i web-based database (<http://empres-i.fao.org/>). Electronic version of the maps can be found on the website <http://www.fao.org/EMPRES/default.htm>.

For further information about the FAO HPAI Situation Update please contact the EMPRES/GLEWS team in FAO [GLEWS@fao.org](mailto:GLEWS@fao.org)

## DISCLAIMER

**FAO** compiles information from numerous sources (FAO representatives or country missions, FAO reports, OIE, official government sources, European Commission, FAO reference centres, laboratories and FAO collaborators) and produces these composite maps in a representative effort to provide full and accurate information.

**FAO** welcomes information to clarify disease or infection occurrence in areas that have not been properly depicted (with supporting documentation to make the required changes based on FAO validation and verification procedures). If you want to share information with GLEWS please send messages to [GLEWS@fao.org](mailto:GLEWS@fao.org)

**MAP:** The maps represent occurrences of confirmed or suspected cases of H5 and H5N1 reported over the last 30 days (1<sup>st</sup> map) and last six months (2<sup>nd</sup> map). H5 cases are represented for countries where N-subtype characterization is not being performed for secondary cases or when laboratory results are still pending. The original data have been collected and aggregated at the most detailed administrative level.

**TEXT:** The text represents information obtained within the past 14 days indicating the original date of reporting or publishing of the information. Sources of information are included for easy reference. FAO does not guarantee the accuracy of non-official reports.

**TABLES:** The outbreaks presented in the tables are referring to the observation date (or the earliest clinical date known) and reported date of the first and last occurrence of an outbreak/case in a country. The affected populations refer to all populations ever affected. The reported date is the date when the occurrence of a disease has been confirmed by an official source. Outbreak of disease or infection means the occurrence of one or more cases of a disease or an infection in an epidemiological unit.