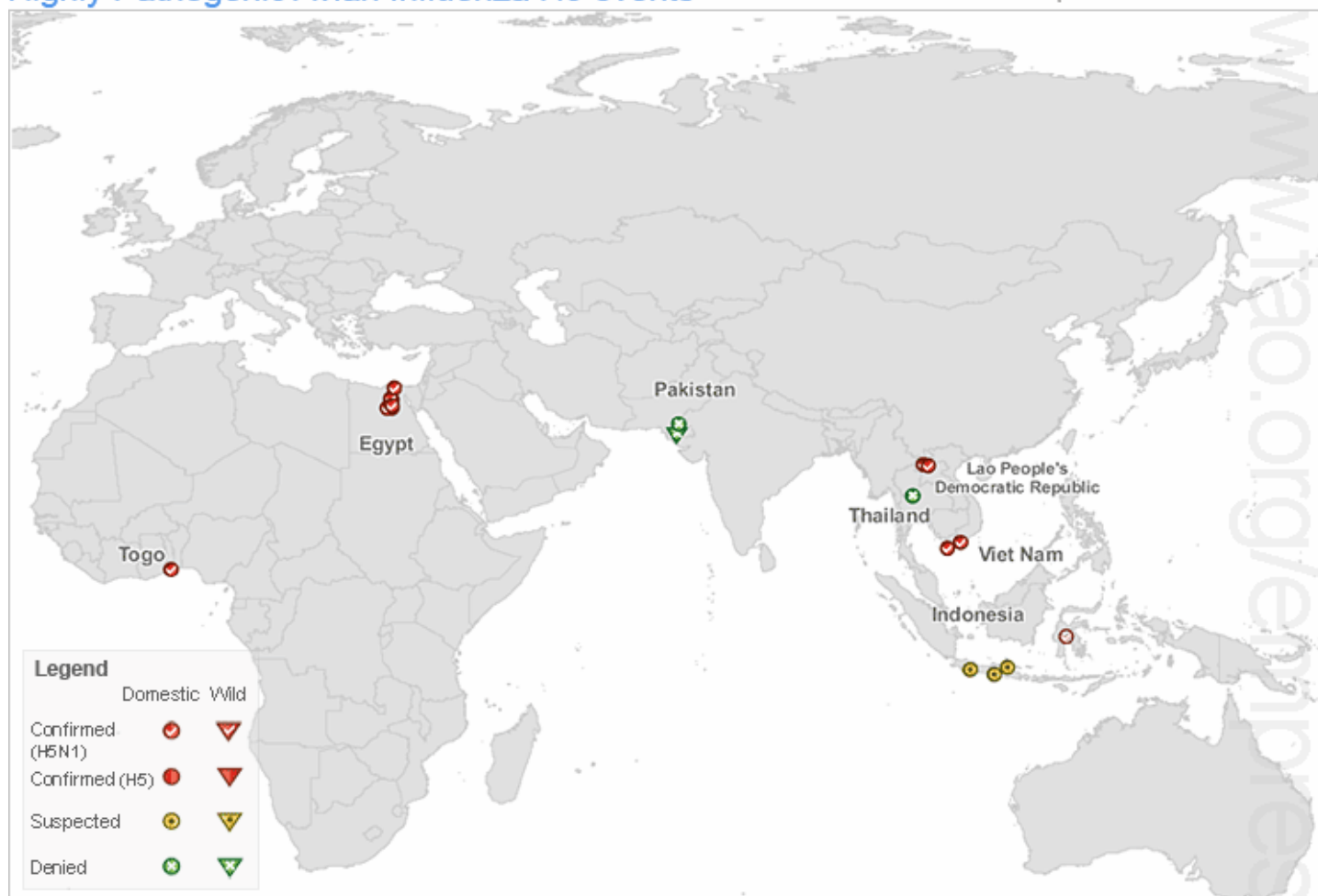


## Highly Pathogenic Avian Influenza H5 events

2 September - 2 October 2008



Note: A map of the latest 6 months confirmed outbreaks is also available at the end of this document.

**WHAT'S NEW in this issue?****AFRICAN REGION**

**Egypt:** Confirmed outbreaks of H5N1 HPAI in poultry

**Togo:** Results of phylogenetic analysis of H5N1 virus

**ASIAN REGION**

**Cambodia:** Negative results from routine surveillance.

**Thailand:** Denied outbreak of H5N1 HPAI in poultry

**Viet Nam:** Confirmed outbreak of H5N1 HPAI in poultry

**Note: updated information is indicated in red**

**AFRICAN REGION****Benin**▪ **OFFICIAL**

24/09/08 - OIE

The HPAI outbreak reported in Lokossa on 29 July 2008 has been denied after testing negative for AI at the FAO/OIE reference laboratory in Padova (Italy) and the WHO

collaborative centre for avian influenza Memphis (United States of America). The Veterinary Services of Benin informed the OIE that the outbreak was actually a misdiagnosis.

**Egypt**▪ **OFFICIAL**

**28/09/08 & 30/09/08 - FAO field officer**

Two positive H5N1 HPAI outbreaks have been reported in backyard poultry in El Fayioum Governorate. The first case was reported on 26 September 2008 in Abshaway Village in three 6-month old vaccinated chickens) and eight 4-month old ducks. The second case was reported on 29 September 2008 in Al Barmaki Village in ducks (250 birds) vaccinated one year ago.

24/09/08 - FAO field officer

The human case suspected to be affected by H5N1 infection has been denied (45 years old woman from El Gharbia Governorate, reported in local media).

23/09/08 - FAO field officer

An H5N1 HPAI outbreak was reported in backyard poultry in Shabsheer El Hassa Village, Tanta District, Al Gharbia Governorate. The 12 chickens affected were four months old and had been vaccinated in August 2008.

17/09/08 - FAO field officer

An H5N1 HPAI outbreak occurred in chickens and ducks in a sub village Ezbet Mohamed Ali, Dakalm Village, Salamout / Dakalm District, Al Minya Governorate. Under active surveillance program, 18 samples were taken in which two chickens of 7 month old and nine ducks of 2 months old were positive.

▪ **NON-OFFICIAL**

22/09/08 – News: Egyptian Chronicles

A 45 years old woman from Al Gharbia Governorate was suspected to suffer from H5N1 infection. She is currently in the Hospital waiting for the tests results.

<http://egyptianchronicles.blogspot.com/2008/09/possible-return-of-h5n1.html>

## Togo

▪ **OFFICIAL**

25/09/08 – Reference laboratory

Results on the phylogenetic analysis of the samples submitted from Togo to FAO/OIE reference laboratory, Padova, Italy, showed that known mutations related to mammalian host adaptation or to antiviral drugs resistance were not revealed in the HA and NA genetic segments. Genetic characterization of HA and NA genes showed that the virus clusters with the H5N1 viruses isolated in Togo in June 2007 (similarity ranged from 99.2% to 99.3% for HA gene and from 98.7% to 98.8% for NA gene).

18/09/08 - OIE

Togo has reported HPAI H5N1 in three modern farms in Agata-Dague. Samples sent to FAO/OIE reference laboratory in Italy were tested positive to virus sequencing. This outbreak has the same location than the previous outbreak of Agbata contained on 31 December 2007.

## ASIAN REGION

### Afghanistan

▪ **OFFICIAL**

23/09/08 - FAO field officer

The HPAI outbreak in Khost Province has been denied after samples sent to FAO/OIE reference laboratory in Padova, Italy on 15 September 2008 tested negative for H5, H7 and Avian Paramyxovirus 1 (APMV1).

### Cambodia

▪ **OFFICIAL**

26/09/08 – UN System

From 19 to 25 September 2008, the animal health hotline at the National Veterinary Research Institute (NaVRI) received 11 calls from Phnom Penh, Kandal, Kampong Cham, Prey Veng, Kratie, Kampong Speu and Siem Reap Provinces. One caller reported about sick and dying poultry in Siem Reap province and the rest asked about the clinical signs of avian influenza (AI) in poultry. A team of district veterinarians went to the village in Siem Reap province where suspected poultry outbreak was found but, after investigation, it was decided that avian influenza was not the cause of the illness and death. NaVRI received seven samples of different types of sparrows collected by the Wildlife Conservation Society (WCS) from the Riverside and Wat Phnom resort in Phnom Penh. The laboratory tests are negative for AI through egg inoculation. There was one human AI suspected case, but negative for H5.

▪ **OFFICIAL**

19/09/08 – UN System

From 12 to 19 September 2008, the animal health hotline at the NaVRI received 10 calls from Phnom Penh, Prey Veng, Kandal, Batambang, Kampong Thom and Kampong Cham Provinces asking for information about AI. There was one human AI suspected case, but negative for H5.

### China, Hong Kong SAR

▪ **OFFICIAL**

18/09/08 - FAO field officer

In reference to the four-year-old child under suspicion of H5N1 infection, information received from the FAO Field Office indicates that the boy was tested negative by PCR for H5N1 infection. He has been discharged from the hospital.

### Indonesia

▪ **OFFICIAL**

23/09/08 - FAO field officer

After a suspicion of H5N1 infection in seven persons, an investigation in poultry and human was carried out in Mekar Jaya Village, Bali Indah 1 Sub Village, Mappedeceng Sub District, Luwu Utara District, South Sulawesi Province. The human suspicions turned to be negative after laboratory testing. The ducks and kampong chickens in the same location tested positive by PCR. Birds had been vaccinated in May 2008. No booster was applied since there is prohibition of AI vaccination in the district.

### Iraq

▪ **OFFICIAL**

17/09/08 - FAO field officer

Iraq reported the laboratory results of their surveillance activities for the month of August 2008. All samples taken were negative for AI [poultry farms (742), backyard poultry (1,335), game and wild birds (178), and markets and slaughterhouses (149)].

### Pakistan

▪ **OFFICIAL**

23/09/08 - FAO field officer

The rumors of H5N1 avian influenza infection in wild birds in the coastal areas of Badin have been denied; also it has been reported that there is no HPAI outbreak anywhere in any species at the moment.

▪ **NON-OFFICIAL**

18/09/08 – News: Intelink Avian Influenza Daily Digest; Source: PPI, contributed by email

The rates of poultry products have declined in Thatta, Badin, Hyderabad, Sanghar and other areas due to the rumors of H5N1 avian influenza infection in coastal areas of Badin and adjacent areas. Some dead migratory birds were found in Badin coastal areas.

### Thailand

▪ **OFFICIAL**

30/09/08 - FAO field officer

Regarding the suspected human case of H5N1 infection and related mortalities in free-range ducks in Pho Prathap Chang District, the test results for the human case were negative to AI. Also, there was nothing unusual ducks or other poultry.

- **NON-OFFICIAL**

30/09/08 – News: GPHIN ID: 4231441; Provider: Factiva; Source: Bangkok Post

A worker on a free-range 1,600-birds duck farm died from H5N1 infection symptoms in Pho Prathap Chang District on 29 September 2008, and health authorities put his 12-year-old son under close observation for signs of infection. Livestock officials have collected samples from the free-range ducks, which have been dying in big numbers over the past week, for testing for HPAI virus. There were reports of poultry die-offs, particularly free-range ducks, in the district during the past week.

### Viet Nam

- **OFFICIAL**

30/09/08 - FAO field officer & OIE

The Department of Animal Health (DAH) reported that H5N1 HPAI at a raiser in Khanh Hai Commune, Tran Van Thoi District, Ca Mau Province occurred on 18 September 2008. According to Regional Animal Health Office No VII, there were 57 dead ducks (45-day-old and unvaccinated) out of a flock of 500. The remaining flock was destroyed. This outbreak, in addition to eight outbreaks (already reported by the DAH and included in previous HPAI Update issues), was reported to OIE on 30 September 2008.

## EUROPEAN REGION

### Italy

- **OFFICIAL (LPAI)**

24/09/08 – European Commission

Cloacal swab samples taken from a poultry farm in Concordia Sagittaria Commune, Venezia Province, Veneto Region tested positive for H5 by RT-PCR. The sequencing result indicated low pathogenic avian influenza (LPAI). No clinical signs found in the poultry (240 chicks, 60 chickens, 242 ducklings and 380 ducks, 12 geese, 12 turkey and 50 guinea fowl) in the farm.

## OCEANIAN REGION

### New Zealand

- **OFFICIAL (LPAI)**

17/09/08 – Ministry of Agriculture and Forestry (MAF)

A surveillance programme on the presence of avian influenza in New Zealand has found low pathogenic avian influenza (LPAI) H5N1 virus in two samples taken from mallard ducks. Tests indicate that the virus is closely related to viruses found in the past and has been there for some time. The samples were taken from healthy birds and there have been no reported bird deaths or disease in the area since the samples were collected. The full report can be viewed at:

<http://www.maf.govt.nz/mafnet/press/2008/080917low-path-ai-virus.htm>.

## 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	Reported: 29/09/08 El Fayioum Governorate	domestic poultry	50/22
Ghana	Reported: 21/04/07 Western, Wassa Amenfi	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: 19/07/08 Reported: 25/07/08 Bauchi, Gombe	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: 18/09/2008 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: 18/05/08 Reported: 20/05/08 Dhaka, Tangail	domestic poultry	1/0
Cambodia	Reported: 12/01/04 Phnom Penh, Tuol Kouk	Reported: 06/04/07 Kampong Cham, Kampong Cham	humans, domestic poultry	7/7
China	Observed: 20/01/04 Reported: 26/01/04 Guangxi Zhuangzu Zizhiqu	Reported: 17/06/08 Guangdong Sheng	domestic poultry	30/20
Hong Kong SAR	Observed: 19/01/04 Reported: 26/01/04 Kowloon	Reported: 18/11/08 * Tuen Mun Park	wild birds, domestic poultry	no
India	Reported: 11/05/04 Tamil Nadu, Tiruchchirap palli	Reported: 15/05/08 West Bengal, Darjiling	humans, domestic poultry	no
Indonesia	Reported: 02/02/04 Jawa Barat, Lebak	Observed: 01/09/08 Reported: 22/09/08 Sulawesi Selatan, Luwu	domestic poultry,	137/112
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, Aotooyoo	Observed: 08/05/08 Reported: 06/06/20 Akita, Oodatesi	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: 01/09/08 Reported: 05/09/08 Oudomxay, Beng	domestic poultry	2/2
Malaysia	Reported: 20/02/06 Kuala Lumpur, Kuala Lumpur	Reported: 02/06/07 Selangor Kuala, Selangor	domestic poultry	no
Mongolia	Observed: 02/08/05 Reported: 08/08/05 Hovsgol, Alag-Erdene	Reported: 05/06/06 Bulgan	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
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: 29/01/08 Riyad	domestic poultry, wild birds	no
Thailand	Reported: 23/01/04 Suphanburi, Song Phi Nong	Reported: 18/01/08 Nakhon Sawan, Chumsaeng	domestic poultry	25/17
Viet Nam	Reported: 09/01/04 Long An, Chau Thanh (Long An)	Observed: 18/09/08 Reported: 30/09/08 Ca Mau Prov, Tran Van Thoi Dist.	domestic poultry	106/52
West Bank and Gaza Strip	Reported: 22/03/06 Tubas	Reported: 22/03/06 Tubas	domestic poultry	no

\* Hong Kong SAR: On 11/06/08 authorities reported that environmental samples taken from cages of poultry stalls in three markets tested positive of the H5N1 AI virus. The three markets were Luen Wo Hui Market in Fanling, Yan Oi Market in Tuen Mun and Ap Lei Chau Market.

## 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 Oberosterrei ch, 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 Srednjebosan ski	Observed:16/02/06 Reported: 20/02/06 Srednjebosan ski	wild birds	no
Bulgaria	Observed: 31/01/06 Reported: 04/02/06 Vidin, Vidin	Reported: 25/05/06 Silistra, Glavitca	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	Reported: 25/12/07 Brandenburg	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:08/04/08 Reported: 11/04/08 Primorskiy Kray	domestic poultry, wild birds	no
Serbia	Reported: 28/03/06 Zlatiborski	Reported: 15/03/06 Zlatiborski	wild birds	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	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: 5/04/06 Reported: 06/04/06 Scotland, Central	Observed: 22/05/08 Reported: 06/06/08 England, Oxfordshire	wild birds, domestic poultry	no

# Highly Pathogenic Avian Influenza H5 confirmed outbreaks

2 April - 2 October 2008



## CONTACTS

The HPAI Situation Update compiles data on Highly Pathogenic Avian Influenza outbreaks. It is updated every two days, published in PDF format and automatically sent by email to a list of subscribers.

To subscribe to the list and receive an electronic version of the HPAI situation update, please send a message to [GLEWS@fao.org](mailto:GLEWS@fao.org)

The ECTAD HPAI Situation Update has been prepared by the EMPRES (Emergency Prevention Programme for Transboundary Animal Diseases) / GLEWS (Global Early Warning and Response System 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, including electronic version of the maps can be found on the EMPRES website: <http://www.fao.org/EMPRES/default.htm>

For further information about HPAI Situation Update please contact the GLEWS team [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 month (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.