

H5N1 avian influenza: Timeline of major events 5 January 2009

Early Events

Date	Events in Animals	Events in Humans
1996	Highly pathogenic H5N1 virus is isolated from a farmed goose in Guangdong Province, China .	
1997	Outbreaks of highly pathogenic H5N1 are reported in poultry at farms and live animal markets in Hong Kong .	Human infections with avian influenza H5N1 are reported in Hong Kong . Altogether, 18 cases (6 fatal) are reported in the first known instance of human infection with this virus.
Feb 2003		Two human cases of avian influenza H5N1 infection (one fatal) are confirmed in a Hong Kong family with a recent travel history to Fujian Province, China . A third family member died of severe respiratory disease while in mainland China, but no samples were taken.

Subsequent Events

Date	Events in Animals	Events in Humans
25 Nov 2003		A fatal human case of avian influenza H5N1 infection occurs in China in a 24-year-old man from Beijing and is attributed to SARS. This case is retrospectively confirmed in August of 2006 (as the 20 th human case in China).
12 Dec 2003	Republic of Korea first reports H5N1 in poultry. Outbreaks continue through September 2004.	
Dec 2003 - Jan 2004	Two tigers and two leopards, fed on fresh chicken carcasses, die unexpectedly at a zoo in Thailand . Subsequent investigation identifies a H5N1 virus similar to that circulating in poultry. This is the first report of influenza causing disease and death in big cats.	
8 Jan 2004	Viet Nam first reports H5N1 in poultry. Outbreaks continue to be reported on a regular basis.	

11 Jan 2004		Viet Nam identifies H5N1 as the cause of human cases of severe respiratory disease with high fatality. Sporadic human cases are reported through mid-March.
12 Jan 2004	Japan first reports H5N1 in poultry, outbreaks continue in commercial poultry through March 2004.	
19 Jan 2004	Hong Kong reports H5N1 in a dead wild bird (first report in birds since poultry outbreak in 1997)	
23 Jan 2004	Thailand first reports H5N1 in poultry. By the end of January, 32 provinces (throughout the north and several in the south) report outbreaks in many types of poultry, including fighting cocks, and outbreaks continue to be reported throughout the year. The virus appears closely related to the isolates from human cases in Viet Nam. Thailand prohibits vaccination of poultry.	Thailand reports two laboratory-confirmed cases of human infection with H5N1. Sporadic human cases are reported through mid-March.
24 Jan 2004	Cambodia first reports H5N1 in poultry.	
27 Jan 2004	Lao PDR first reports H5N1 in poultry.	
1 Feb 2004		Investigation of a family cluster of H5N1 cases, which occurred in Viet Nam in early January, cannot rule out the possibility of limited human-to-human transmission.
2 Feb 2004	Indonesia first reports H5N1 in poultry in 11 provinces. Outbreaks continue to be reported. Vaccination is allowed.	
4 Feb 2004	China first reports H5N1 in poultry. During February-March, 16 mainland provinces are affected, and approx. 9 million poultry culled. Government-subsidized vaccination initiated.	
20 Feb 2004	A report from Thailand confirms that a domestic cat was infected with H5N1 after eating an infected pigeon.	
18 Mar 2004		Research ² Case studies of 10 patients in Viet Nam point to close contact with infected poultry as the probable source of infection in most cases, but conclude that, in two family clusters, limited human-to-human transmission within the family cannot be ruled out.
Jun/Jul 2004	China reports recurrence of H5N1 in poultry. Outbreaks continue to be reported in Indonesia, Viet Nam and Thailand.	
8 Jul 2004	Research ³ Research identifies the dominant Z genotype in poultry, considers possible role of wild birds in spread, and	

	concludes that H5N1 has found a new ecological niche in poultry, but is not yet fully adapted to this host.	
13 Jul 2004	Research ⁴ Research shows that H5N1 has become progressively more lethal for mammals and can kill wild waterfowl, long considered a disease-free natural reservoir.	
Jul 2004		Research ⁵ A case report is published indicating atypical human H5N1 infection in Thailand (from March 2004), with fever and diarrhoea but no respiratory symptoms. The report suggests that the clinical spectrum of disease may be broader than previously thought.
12 Aug 2004		Viet Nam reports 3 new human cases, all fatal (first cases since February). Dates of hospital admission are from 19 July to 8 August.
19 Aug 2004	Malaysia (peninsular) first reports H5N1 in poultry. Outbreaks and positive avian surveillance samples continue to be reported through September 2004.	
20 Aug 2004	Research ⁶ Chinese researchers report preliminary findings of H5N1 infection in pigs. No evidence suggests that pig infections are widespread, and the finding appears to have limited epidemiological significance.	
2 Sep 2004	Research ⁷ Research shows that domestic cats experimentally infected with H5N1 develop severe disease and can spread infection to other cats. Prior to this research, domestic cats were considered resistant to disease from all influenza A viruses.	
7 Sep 2004		A 4 th fatal human case is reported in Viet Nam .
9 Sep 2004		Thailand confirms its third fatal case of human infection.
28 Sep 2004		Thailand confirms 2 further human cases.
4 Oct 2004		Thailand confirms its 4 th human case.
18 Oct 2004	Two healthy Hawk-Eagles smuggled from Thailand are seized at Brussels International Airport. HPAI H5N1 is isolated.	
20 Oct 2004	A second outbreak of HPAI H5N1 in zoo tigers in Thailand occurs. It is attributed to tigers having been fed fresh chicken carcasses and whole chickens. Altogether,	

	147 tigers out of a population of 441 die or are euthanized. No virus is detected in birds in zoo or local area.	
25 Oct 2004		Thailand confirms its 5 th human case.
29 Oct 2004	Research ⁸ Research confirms that domestic ducks can act as silent reservoirs, excreting large quantities of highly pathogenic virus yet showing few if any signs of illness.	
3 Nov 2004	Hong Kong SAR reports H5N1 in a dead wild bird (last report January 2004).	
Dec 2004	Poultry outbreaks continue in Indonesia, Thailand, and Viet Nam and possibly also in Cambodia and Lao PDR. Reported outbreaks continue more or less continuously in Indonesia through August 2006, in Thailand through November 2005, and in Viet Nam though December 2005.	
30 Dec 2004		Viet Nam confirms a new case.
6 Jan 2005		Viet Nam confirms 2 further cases.
14 Jan 2005	Hong Kong reports H5N1 in one wild bird as part of routine surveillance.	Total number of human cases in Viet Nam rises to 6. Sporadic cases continue to be reported over the coming months, making Viet Nam the hardest hit country.
27 Jan 2005		Research ⁹ Research concludes that a girl in Thailand probably passed the virus to at least her mother in September 2004, causing fatal disease. This is the first published account of probable secondary human transmission, resulting in severe disease, of any avian influenza virus.
2 Feb 2005		Cambodia confirms its first human case, which is fatal.
17 Feb 2005		Research ¹⁰ Research retrospectively identifies at least one fatal atypical case in Viet Nam (from Feb 2004), presenting with diarrhoea and encephalitis, but normal chest X-rays.
29 Mar 2005		Cambodia confirms its 2 nd human case, also fatal.
12 Apr 2005		Cambodia confirms its 3 rd human case, also fatal.
30 Apr 2005	Wild birds begin dying at Qinghai Lake in central China, where hundreds of thousands of migratory birds congregate. Altogether, 6,345 birds from different species die in the coming weeks. This is the first reported instance of any HPAI causing mass die-offs in wild birds.	
4 May 2005		Cambodia confirms its 4 th human case,

		also fatal.
8 Jun 2005	China reports poultry outbreak in Xinjiang Autonomous Region. Reports continue from several provinces, through February 2006.	
26 Jun 2005	Japan reports LPAI H5N2 in poultry, which continues to be detected through April 2006. Source remains unconfirmed, though one rumour suggests the strain was introduced via improperly prepared vaccine.	
30 Jun 2005		A WHO investigative team finds no evidence that H5N1 has increased its transmissibility in humans in Viet Nam.
6 Jul 2005	Research ¹¹ Research on viruses isolated from dead birds in Qinghai Lake suggests the outbreak was caused by a new H5N1 variant that may be more lethal to wild birds and experimentally infected mice.	
7 Jul 2005	The Philippines reports LPAI (likely an H9) in poultry.	
14 Jul 2005	Research ¹² Research on viruses isolated from dead birds in Qinghai Lake demonstrates transmission of the virus among migratory geese and suggests that the virus may be carried along winter migratory routes.	
15 Jul 2005	H5N1 is detected in three captive Owston's palm civets that died in late June in a Vietnamese wildlife preserve. This is the first reported infection of this species with the virus. The civets were not fed chicken and the source of infection remains unknown.	
21 Jul 2005		Indonesia confirms its first human case. Infection in two other family members is considered likely, but cannot be laboratory confirmed. Subsequent investigation is unable to determine the source of infection. Virus has been circulating in poultry in Indonesia since February 2004.
23 Jul 2005	Russia reports first outbreaks of H5N1, in poultry in the Novosibirsk region. Dead migratory birds are reported in the vicinity of outbreaks. From 23 July- 22 December 2005, a total of 62 sites in 10 regions are confirmed as HPAI H5N1-positive.	
29 Jul 2005	Kazakhstan reports first H5N1 in poultry in areas adjacent to Siberia. Dead migratory birds are reported in the vicinity of outbreaks.	

2 Aug 2005	Indonesia reports H5N1 in poultry and pigs during surveillance in the region where the recent human cases lived (Tangerang district, Banten province, West Java).	
10 Aug 2005	China reports additional outbreaks in several provinces through February 2006. Vaccination is initiated in affected regions using an H5N2 monovalent inactivated vaccine. Mongolia reports deaths in 89 migratory birds at two lakes in Northern Mongolia.	
	H5N1 is subsequently identified in 4 of the birds.	
16 Sep 2005		Indonesia confirms its 2 nd case.
22 Sep 2005		Indonesia confirms its 3 rd case.
29 Sep 2005		Indonesia confirms its 4 th case. Research ¹³
		Research describes the clinical features of H5N1 infection and reviews recommendations for the management of cases.
Oct 2005		Research ¹⁴ Research on the evolution of human and animal viruses circulating in Asia in 2005 suggests that several amino acids located near the receptor-binding site are undergoing change, some of which may affect antigenicity or transmissibility.
6 Oct 2005	Highly pathogenic H5N1 is first reported in poultry in Turkey .	Research ^{15, 16} Research describes reconstruction of the lethal 1918 pandemic virus, concludes that this virus was entirely avian, and finds some similarities with H5N1.
7 Oct 2005	Highly pathogenic H5N1 is first reported in poultry in Romania . Reports continue through July 2006.	
10 Oct 2005		Indonesia confirms its 5 th human case.
20 Oct 2005	Taiwan, China reports the detection of highly pathogenic H5N1 in a cargo of exotic songbirds smuggled from mainland China.	Thailand confirms its 18 th human case (the first human case in Thailand since October 2004.
21 Oct 2005	Croatia first reports H5N1 in wild birds (migratory swans). H5N1 continues to be reported in wild birds on routine surveillance, through April 2006.	
23 Oct 2005	The United Kingdom reports highly pathogenic H5N1 in an imported parrot, held in quarantine, that died 3 days earlier.	
24 Oct 2005		Thailand confirms its 19 th human case, and Indonesia confirms its 6 th and 7 th human cases.

9 Nov 2005		Viet Nam confirms its 65 th human case (its first human case since July 2005).
11 Nov 2005	Kuwait detects highly pathogenic H5N1 in a single migratory flamingo, marking the first report of this disease in the Gulf region.	
17 Nov 2005		China confirms its first two human cases, from Hunan and Anhui provinces (does not include the case in 2003, confirmed retrospectively).
24 Nov 2005		China confirms its third human case, from Anhui province. Sporadic cases continue to be reported in the coming weeks.
2 Dec 2005	Ukraine reports its first H5N1 outbreak in domestic birds in Crimea. Outbreaks continue to be reported through February 2006.	
26 Dec 2005	Turkey reports a new outbreak in poultry in the eastern province of Igdir. Through April 2006, additional outbreaks are reported in primarily backyard poultry in 11 of the country's 81 provinces. Wild birds are also reported to be infected. Control measures include culling of poultry in Iraqi Kurdistan and all backyard poultry in Iran within 10 km of the Turkish border. Vaccination is prohibited.	
Jan 2006	Qinghai Lake-like H5N1 viruses are reportedly isolated from cats in Northern Iraq. ¹⁷	By the end of 2005, Indonesia has confirmed a total of 20 cases in humans.
5 Jan 2006		Turkey confirms its first two human cases. Sporadic cases continue to be reported in the coming weeks, but rapidly end. Viruses are similar to those currently circulating in birds.
20 Jan 2006	Hong Kong reports H5N1 in a dead wild bird (first report since January 2005), and H5N1 reports in wild birds (and in 2 chickens) continue through March 2006. These viruses all belong to H5N1 genotype V, which has previously been recorded in southern China, Japan and South Korea.	
30 Jan 2006		Iraq confirms its first human case, in a 15-year-old girl in Sulaimaniyah (onset date 9 January 2006).
1 Feb 2006	Iraq reports its first outbreak of H5N1, in backyard flocks in same village where human case detected.	
3 Feb 2006	Bulgaria first reports H5N1 in wild birds (swans).	
8 Feb 2006	Nigeria first reports H5N1 in poultry.	

	This is the first report of the virus in Africa. Outbreaks in poultry and ornamental birds are reported through March 2006.	
9 Feb 2006	Greece first reports H5N1 in wild birds (swans). Additional reports in wild birds through March 2006.	
11 Feb 2006	Italy first reports H5N1 in wild birds.	
12 Feb 2006	Slovenia first reports H5N1 in a wild bird (swan). A total of 48 dead wild birds are reported through March 2006.	
13 Feb 2006	Iran first reports H5N1 in wild birds (swans) found dead on routine surveillance. Russia reports H5N1 outbreaks (at large commercial farms) in the Caucasus region, near the border with Azerbaijan. Further outbreaks are reported in backyard poultry, pigeons, and wild birds in Tyva Republic, Altaj, Tomsk, Omsk and Novosibirsk regions through July 2006. (first outbreak reported since October 2005)	China confirms its 12 th case and 8 th fatality. Some human cases have occurred in areas with no reported outbreaks in poultry. Indonesia confirms its 25 th case and 18 th fatality.
14 Feb 2006	Germany first reports H5N1 in wild birds (swans). Reports of H5N1 in wild birds on routine surveillance continue through April 2006.	
17 Feb 2006	Egypt reports its first H5N1 in domestic poultry (since 1965). Outbreaks continue to be reported through December 2006.	Iraq confirms its second human case.
	France first reports H5N1 in a wild duck (followed by additional reports in other wild birds).	
18 Feb 2006	India first reports H5N1 in domestic poultry. Reported outbreaks continue through April 2006.	
	Austria first reports H5N1 in wild birds (swans). Austria continues to find H5N1 in some wild birds on routine surveillance, until April 2006.	
19 Feb 2006	Malaysia reports H5N1 in a flock of free- range poultry (last reported September 2004). Outbreaks reported through March 2006.	
20 Feb 2006	Bosnia-Herzegovina and Slovakia each first report H5N1 in wild birds (migratory swans).	
21 Feb 2006	Hungary first reports H5N1 in wild birds (swans). Research ¹⁸	
	Studies of H5N1 viruses show that multiple genetically and antigenically distinct sublineages of the virus are now established in poultry in parts of Asia.	

	Poultry-to-poultry transmission is thought to sustain endemicity of the virus in this region. H5N1 virus is isolated from apparently healthy migratory birds in southern China, suggesting that migratory birds can carry the virus over long distances.	
23 Mar 2006	West Bank/Gaza Strip first reports H5N1 in poultry. Outbreaks reported through April 2006.	
24 Feb 2006	Azerbaijan first reports H5N1 in migratory birds. H5N1 is later also confirmed in poultry. Georgia first reports H5N1in wild birds (swans).	
25 Feb 2006	France first reports H5N1 in a single turkey farm, marking the first appearance of this disease in domestic poultry in the EU. Had previously been identified in wild birds in France.	
27 Feb 2006	Niger first reports H5N1 in domestic poultry (area near border with affected states of northern Nigeria)	
	Pakistan first reports H5N1 in poultry. Outbreaks are reported through July 2006.	
28 Feb 2006	Germany reports H5N1 infection in a dead domestic cat on the Isle of Ruegen. Two more cats on the Island are found to be infected in March. Cats are thought to have been exposed by eating infected birds.	
1 Mar 2006	Serbia-Montenegro first reports H5N1 in wild birds (swans). Switzerland first reports H5N1 in a dead wild bird. Additional wild birds are reported positive in March and April from various locations throughout the country on routine surveillance.	
6 Mar 2006	Poland first reports H5N1 in wild birds (swans). Reports continue through May 2006.	
7 Mar 2006	Albania first reports H5N1 in poultry (chickens). Austria reports H5N1 in 3 domestic cats in an animal shelter.	
9 Mar 2006	Germany reports H5N1 infection in a stone marten on the Isle of Ruegen, marking the first documented infection of this species with an avian influenza virus. Myanmar reports H5N1 in poultry (first since 1996).	
11 Mar 2006	Cameroon first reports H5N1 in domestic ducks.	

13 Mar 2006	Serbia-Montenegro first reports H5N1 in poultry (1 rooster). Had been previously reported in wild birds.	Iraq has its third human case, in a 3-year-old boy (case retrospectively confirmed in September, 2006)
14 Mar 2006	Denmark first reports H5N1 in a wild bird. Reports in wild birds continue through May of 2006.	Azerbaijan confirms its first human cases (onset dates from mid-February 2006).
15 Mar 2006	Afghanistan first reports H5N1 in poultry and a crow.	
16 Mar 2006	Israel first reports H5N1 in poultry. Sweden first reports H5N1 in 36 dead wild birds tested in February and March (no increase in overall wild bird mortality)	
17 Mar 2006	Khazakstan reports H5N1 in wild birds (first since August 2005) Sweden first reports HPAI H5 (no N type given) in poultry in a game bird holding within the surveillance zone set up in response to detection of H5N1 in wild birds.	
20 Mar 2006		Egypt confirms its first human case in a 30-year-old woman from Qalubiya (onset early March 2006).
23 Mar 2006	Cambodia reports its first outbreak in poultry since December 2004. Outbreaks continue to be reported through fall 2006. Jordan first reports H5N1 in poultry.	Research ^{19, 20} Two research groups publish findings that may help explain why the H5N1 virus does not easily infect humans or – like normal seasonal influenza – spread readily by coughing or sneezing. Whereas human influenza viruses attach themselves to molecules in cells lining the nose and throat, avian viruses prefer to bind to molecules located deep in the lungs. Such findings are consistent with the clinical picture of H5N1 infection, in which most patients present with symptoms of infection in the lower respiratory tract, with rapid progression to pneumonia.
27 Mar 2006	Czech Republic first reports H5N1 in a wild bird (swan). Reports in wild swans continue through May 2006. Sweden detects H5N1 in a wild mink in southern Sweden in an area where wild birds cases have been detected.	
3 Apr 2006	Burkina Faso first reports H5N1 in poultry (guineafowl).	
5 Apr 2006	Germany first reports H5N1 in poultry, in turkeys on a single farm (previously reported in wild birds).	
6 Apr 2006	United Kingdom first reports H5N1 in a single wild bird (swan).	Cambodia confirms its 6 th human case in a 12-year-old boy from Prey Vang (onset date 29 March 2006) (first human case in Cambodia since April 2005).

12 Apr 2006		Indonesia confirms its 31 st human case in a 23-year-old man from West Java (onset date 20 March 2006).
13 Apr 2006		Egypt confirms its 12 th human case in a 18-year-old woman from Minufiyah (onset date 5 April 2006).
17 Apr 2006	Sudan first reports H5N1 in poultry (both intensive and backyard systems). Additional outbreaks reported through October 2006.	
19 Apr 2006	China reports H5N1 in wild aquatic and other birds in Qinghai and Tibet regions. Côte d'Ivoire first reports H5N1 in poultry and a wild bird. Outbreaks continue to be reported through July 2006.	China confirms its 17 th human case in an 21-year-old man from Hubei (onset date 1 April 2006). Indonesia confirms its 32 nd human case in a 24-year-old man from Banten (onset date 29 March 2006).
24 Apr 2006	Djibouti reports its first case of H5N1 in poultry.	
27 Apr 2006		China confirms its 18 th human case in an 8-year-old girl from Sichuan (onset date 16 April 2006).
4 May 2006	Mongolia reports H5N1 in dead wild birds on routine surveillance through June 2006 (last report August 2005).	Egypt confirms its 13 th human case in a 27-year-old woman from Cairo (onset date 15 April 2006).
8 May 2006		Indonesia confirms its 33 rd human case in a 30-year-old man from Jakarta (onset date 17 April 2006)
9 May 2006	Ukraine first reports HPAI H5 in wild birds (previously reported in poultry)	
12 May 2006		Djibouti confirms its first human case in a 2-year-old girl from Arta (onset date 23 April 2006).
18 May 2006	Denmark reports its first outbreak of H5N1 HPAI in domestic poultry (was previously reported in wild birds). An outbreak of H5N2 LPAI was also reported during this period.	Egypt confirms its 14 th case in a 75-year-old woman from Al Minya (onset date 11 May 2006). Indonesia reports the largest family cluster in any country to date, with 7 confirmed cases (the 34 th through 39 th and the 42 nd) from 4 households in the Karo
		district of North Sumatra. The index case (unconfirmed) develops symptoms on 24 Apr, the last case dies on 22 May. Cases include the index case's 2 sons, (aged 15 and 17 years), her 10-year-old nephew, her 2 brothers (aged 25 and 32 years), her 28-year-old sister, and this sister's 18-month-old daughter. Disease does not spread beyond the extended family. Limited human to human transmission can not be ruled out. Viruses do not show any significant genetic mutations or reassortment. Indonesia also confirms its 40 th human
		case, in a 38-year-old woman from East

	T	T. (
		Java (onset date 2 May 2006).
19 May 2006		Indonesia confirms its 41 st human case in a 12-year-old boy from East Jakarta (onset date 7 May 2006).
29 May 2006		Indonesia confirms its 43 rd - 48 th human cases in an 18-year-old man from East Java (onset date 6 May 2006), a 10-year-old girl and her 18-year-old brother from West Java (both with onset date 16 May 2006), a 39-year-old man from Jakarta (onset date 9 May 2006), a 43-year-old man from Jakarta (onset date 6 May 2006), and a 15-year-old girl from West Sumatra (onset date 17 May 2006). All 6 cases are unrelated to the family cluster in Karo, North Sumatra.
4 Jun 2006	China reports its first cases in poultry since February 2006. Outbreaks reported from various provinces through October 2006.	
6 Jun 2006		Indonesia confirms its 49 th human case in a 15-year-old boy from West Java (onset date 26 May 2006).
9 Jun 2006	Hungary reports its first H5N1 in poultry (previously reported in wild birds).	
15 Jun 2006	Ukraine reports H5N1 in poultry (first report since February 2006), first reported in wild birds in May 2006.	Indonesia confirms its 50 th human case in a 7-year-old girl from Banten (onset date 26 May 2006).
16 Jun 2006		China confirms its 19 th human case, in a 31-year-old man from Guandong (onset date 3 June 2006).
20 Jun 2006		Indonesia confirms its 51 st human case in a 13-year-old boy from Jakarta (onset date 9 June 2006).
30 Jun 2006		Research ²¹ The first analysis of epidemiological data on all 205 laboratory-confirmed H5N1 cases officially reported to WHO from Dec 2003 to 30 Apr 2006 is published by WHO.
4 Jul 2006		Indonesia confirms its 52 nd human case in a 5-year-old boy from East Java (onset date 8 June 2006).
7 Jul 2006	Spain first reports H5N1 in a single wild shore bird (grebe) in northern region.	
14 Jul 2006		Indonesia confirms its 53 rd human case in a 3-year-old girl from Jakarta (onset date 23 June 2006).
20 Jul 2006		Indonesia confirms its 54 th human case in a 44-year-old man from Jakarta (onset date 24 June 2006).
26 Jul 2006	Thailand reports two H5N1 outbreaks in poultry (in Phichit and Nakhon Phanom	Thailand confirms its 23 rd human case in a 17-year-old boy from Phichit in

	provinces). These are the first reported in more than 8 months. Poultry vaccination remains prohibited.	northern Thailand (onset date 15 July 2006) (the first human case in Thailand in 2006).
27 Jul 2006	Lao PDR reports H5N1 in poultry (first reported since January 2004)	
3 Aug 2006	H5N1 is detected in a captive zoo swan in Germany (previously reported in both wild and domestic birds)	
30 Aug 2006	Viet Nam reports H5N1 in unvaccinated duck flocks and market ducks on routine surveillance. Ducks did not show clinical signs. (First report since December 2005)	
7 Aug 2006		Thailand confirms its 24 th human case in a 27-year-old man from Uthai Thani in central Thailand (onset date 24 July 2006).
8 Aug 2006		China retrospectively confirms its 20 th human case in a 24-year-old man from Beijing (onset date 25 November 2003) who died. This case becomes the first confirmed case of HPAI H5N1 infection in the present outbreak. The case was initially attributed to SARS.
		Indonesia confirms its 55 th human case in a 16-year-old boy from West Java (onset date 26 July 2006), and becomes the country with the most human deaths (n=43) from H5N1 HPAI infection, surpassing Viet Nam.
		A system for unified H5N1 nomenclature, developed by the WHO/OIE/FAO Evolution Working Group, is posted on the WHO website
		(http://www.who.int/csr/disease/avian_influenza/guidelines/nomenclature/en/index.html) and the OFFLU website (www.offlu.net).
9 Aug 2006		Indonesia confirms its 56 th human case in an 17-year-old girl from Jakarta (onset date 28 July 2006).
14 Aug 2006		Indonesia confirms its 57 th human case in an 17-year-old boy from West Java (Cikelet/Garut Cluster) (onset date 26 July 2006).
14 Aug 2006	The USA detects LPAI H5N1 in wild mute swans in Michigan.	China confirms its 21 st human case in a 62-year-old man from the Uygur Autonomous Region in north-western China (onset date 19 June 2006).
17 Aug 2006		Indonesia confirms its 58 th human case in an 9-year-old girl from West Java (Cikelet/Garut Cluster) (onset date 1 August 2006).
21 Aug 2006		Indonesia confirms its 59 th human case in an 35-year-old woman from West Java (Cikelet/Garut Cluster) (onset date 8

23 Aug 2006		August 2006). In this cluster, there was no evidence of human to human transmission, poultry deaths were possibly linked with live chickens returning to village from live animal market, and there were possible additional human cases that were not confirmed. Indonesia confirms its 60 th human case in
23 Aug 2000		an 6-year-old girl from West Java (onset date 6 August 2006).
2 Sep 2006	The USA detects LPAI H5N1 in wild ducks in Pennsylvania and Maryland.	
8 Sep 2006		Indonesia confirms its 61 st human case in an 14-year-old girl from South Sulawesi (onset date 18 June 2006). Due to revisions to the WHO case definition, two cases are retrospectively confirmed in Indonesia: The 62 nd in an 8-year-old girl from Banten (onset date 24 June 2005) and the 63 rd in a 45-year-old man from central Java (onset date 25 November 2005).
14 Sep 2006		Indonesia confirms its 64 th human case in a 5-year-old boy from West Java (onset date 4 March 2006) and (through follow up testing) its 65 th human case in a 27-year-old male from West Sumatra (onset date 28 May 2006) (brother of 15-year-old girl; was possible human to human transmission).
25 Sep 2006		Indonesia confirms its 66 th human case in an 11-year-old boy from East Java (onset date 16 September 2006)and its 67 th human case in a 9-year-old boy from Jakarta (onset date 13 September 2006).
27 Sep 2006		Indonesia confirms its 68 th human case in a 20-year-old man from West Java (onset date 17 September 2006).
27 Sep 2006		Thailand confirms its 25 th human case, in a 59-year-old man from Nong Bua Lam Phu Province in Northeastern Thailand (onset date 14 July 2006).
3 Oct 2006		Indonesia confirms its 69 th human case in a 21-year-old woman from East Java (onset date 19 September 2006) (the sister of the 66 th case).
11 Oct 2006		Egypt confirms its 15 th human case, in a 39-year-old woman from Gharbiya (onset date 30 September 2006) (the first human case since May 2006).
16 Oct 2006		Indonesia confirms its 70 th human case in a 67-year-old woman from West Java (onset date 3 October 2006), its 71 st human case in a 11-year-old boy from Jakarta (onset date 2 October 2006), and

		its 72 nd human case in a 27-year-old woman from Central Java (onset date 8 October 2006).
30 Oct 2006	Research ²²	
	A surveillance study of H5N1 isolates from poultry in southern China confirms that subtypes continue to emerge and their relative prevalence continues to change.	
13 Nov 2006		Indonesia confirms its 73 rd human case in a 35-year-old woman from Banten (onset date 7 November 2006) and its 74 th human case, in a 30 month old boy from West Java (onset date 10 November 2006).
22 Nov 2006	Republic of Korea reports H5N1 in poultry (first since September 2004). Outbreaks continue to be reported.	
10 Dec 2006		China confirms its 22 nd human case in a 37-year-old man from Anhui (onset date 10 December 2006) (retrospectively confirmed on 10 January 2007).
14 Dec 2006	In an effort to contain the disease, live animal markets in Beijing, China are permanently closed.	
19 Dec 2006	Viet Nam reports H5N1 in unvaccinated poultry (first report since August 2006). Outbreaks become widespread in the southern part of the country.	
27 Dec 2006		Egypt confirms its 16 th , 17 th , and 18 th human cases in an extended family in Gharbiyah (onset dates 9-15 December 2006). The isolated viruses had a genetic mutation, linked in laboratory testing to moderately reduced susceptibility to oseltamivir. WHO does not change treatment recommendations.
8 Jan 2007		Indonesia confirms its 75 th human case, in a 14-year-old boy from West Jakarta (onset date 31 December 2006).
9 Jan 2007		Indonesia confirms its 76 th human case, in a 37-year-old woman from Banten (onset date 1 January 2007).
12 Jan 2007		Indonesia confirms its 77 th human case, in a 22-year-old woman from Banten (onset date 3 January 2007).
13 Jan 2007	Japan reports H5N1 in poultry (first since March 2004).	
15 Jan 2007	Hong Kong reports H5N1 in dead wild birds (first since January 2006).	Indonesia confirms its 78 th human case, in a 27-year-old woman from South Jakarta (onset date 6 January 2007) and its 79 th human case, in a 18-year-old boy from Banten (onset date 10 January 2007) (son of the 76 th case).

16 Jan 2007	Thailand reports H5N1 in poultry during routine intensive surveillance (first since July 2006). Vaccination remains prohibited.	
17 Jan 2007	Viet Nam reports continued H5N1infection in farmed and village poultry	
22 Jan 2007		Egypt confirms its 19 th human case, in a 27-year-old woman from Beni Sweif (onset date 9 January 2007).
22 Jan 2007		Indonesia confirms its 80 th human case, in a 32-year-old woman from West Java (onset date 8 January 2007).
24 Jan 2007	Hungary reports H5N1 in poultry (first since June 2006).	
25 Jan 2007		Indonesia confirms its 81 st human case, in a 6-year-old girl from Central Java (onset date 8 January 2007).
26 Jan 2007	Russia reports H5N1 in poultry (first report since July 2006).	
27 Jan 2007	The United Kingdom reports H5N1 on a commercial turkey farm (first ever report in poultry, reported in wild birds in April 2006). Only a single outbreak occurs.	
28 Jan 2007	In an effort to curb virus spread, Indonesia institutes a poultry ban for the entire island of Java, and bans backyard poultry in 9 provinces.	
31 Jan 2007		Nigeria confirms its first human case, in a 22-year-old woman from Lagos (onset date 8 January 2007).
1 Feb 2007	Pakistan reports H5N1 in poultry (first since July 2006).	
6 Feb 2007		Egypt confirms its 20 th human case, in a 17-year-old girl from Fayoum (onset date 25 January 2007).
9 Feb 2007		Research ²³ The second WHO analysis of epidemiological data on WHO-confirmed human cases of avian influenza A (H5N1) infection, 25 November 2003 – 24 November 2006 is published by WHO.
9 Feb 2007	Turkey reports H5N1 in backyard poultry (first report since April 2006).	
15 Feb 2007		Egypt confirms its 21 st human case, in a 37-year-old woman from Fayoum (onset date 10 February 2007).
19 Feb 2007		Egypt confirms its 22 nd human case, in a 5-year-old boy from Sharkia (onset date 14 February 2007).
20 Feb 2007	Ongoing H5N1 outbreaks in poultry in several states of Nigeria are reported by FAO. ²⁴	
19 Feb 2007	Lao PDR reports H5N1 in poultry (first reported since July 2006).	
22 Feb 2007	Afghanistan reports H5N1 in backyard poultry and farms (first report since	

	March 2006).	
26 Feb 2007	Kuwait reports H5N1 in poultry in backyards, on farms, and in a zoo (first report in birds since November 2005. First ever report in poultry).	Lao PDR confirms its first human case, in a 15-year-old girl from Vientiane (onset date 10 February 2007).
28 Feb 2007	Myanmar reports H5N1 in poultry (first report since April 2006).	Egypt confirms its 23 rd human case, in a 4-year-old girl from Dakahlea (onset date 25 February 2007). China confirms its 23 rd human case, in a 44-year-old woman from Fujian (onset date 18 February 2007).
6 Mar 2007	China reports H5N1 in poultry (first report since September 2006).	,
12 Mar 2007	•	Egypt confirms its 24 th human case, in a 4-year-old boy from Dakahlea (onset date 7 March 2007).
16 Mar 2007		Lao PDR confirms its second human case, in a 42-year-old woman from Vientiane Province (onset date 26 February 2007).
19 Mar 2007		Egypt confirms its 25 th human case, in a 10-year-old girl from Aswan (onset date 13 March 2007).
20 Mar 2007		Egypt confirms its 26 th human case, in a 2-year-old boy from Aswan (onset date 15 March 2007). China confirms avian influenza H9N2 infection in a 9-month-old girl with mild signs of disease.
26 Mar 2007		Egypt confirms its 27 th human case, in a 3-year-old girl from Aswan (onset date 22 March 2007). No epidemiological link is evident among the three recent cases from Aswan.
27 Mar 2007		During high level talks in Jakarta, Indonesia announces that it will resume sharing H5N1 AI virus with the international community.
28 Mar 2007		Egypt confirms its 28 th human case, in a 6-year-old girl from Qena, and its 29 th human case, in a 5-year-old boy from Menia. (both had onset date 26 March 2007)
29 Mar 2007		China confirms its 24 th human case, in a 16-year-old boy from Anhui (onset date 17 March 2007).
30 Mar 2007	Bangladesh reports H5N1 in poultry (first ever in Bangladesh).	
2 Apr 2007	Saudi Arabia reports H5N1 in poultry (first ever in Saudi Arabia)	Egypt confirms its 30 th human case, in a 4-year-old boy from Qena (brother of the 28 th case), its 31 st human case, in a 7-year-old boy from Sohag (both with onset date 26 March 2007), and its 32 nd human case, in a 4-year-old girl from Qalyoubia (onset date 29 March 2007). According to the Ministry of Health in
10.1. 2005		Indonesia, cases of H5N1 infection in humans continue to occur.
10 Apr 2007		Cambodia confirms its 7 th human case, in

		a 13-year-old girl from Kampong Cham (onset date 2 April 2007) (first human
		case since March 2006). Egypt confirms its 33 rd human case, in a 2-year-old girl from Menia (onset date 3 April 2007) and its 34 th human case in a 15-year-old girl from Cairo (onset date 30 March 2007).
12 Apr 2007	Cambodia reports H5N1 in village poultry (first report in poultry since August 2006).	
3 May 2007	Ghana reports H5N1 in poultry (first ever in Ghana).	
16 May 2007		WHO retrospectively confirms 15 human cases and 13 deaths in Indonesia , bringing the total confirmed human cases to 96, with 76 deaths. Cases had onset dates between 25 January and 3 May 2007, and had been initially confirmed by the Indonesian Ministry of Health.
23 May 2007		A resolution on international sharing of influenza viruses is reached at the WHO World Health Assembly in Geneva.
24 May 2007	Viet Nam reports multiple outbreaks in unvaccinated poultry (primarily ducks) from several provinces throughout the country. Bangladesh reports multiple outbreaks in poultry from additional provinces throughout the country.	Indonesia confirms its 97 th human case, in a 5-year-old girl from Central Java (onset date 8 May 2007).
25 May 2007		The United Kingdom Health Protection Agency reports at least 4 human infections with low pathogenic avian influenza H7N2. The cases are associated with reported H7N2 infections in poultry.
30 May 2007		China confirms its 25 th human case, in a 19-year-old soldier stationed in Fujian province (onset date 9 May 2007).
31 May 2007		Indonesia confirms its 98 th human case, in a 45-year-old man from Central Java (onset date 17 May 2007).
2 Jun 2007	Malaysia reports its first outbreak in poultry since March, 2006 (in village chickens).	
6 Jun 2007		Indonesia confirms its 99 th human case, in a 16- year-old girl from Central Java (onset date 21 May 2007).
11 June 2007		Egypt confirms its 35 th human case, in a 10-year-old girl from Qena (onset date 1 June 2007).
12 Jun 2007		Egypt confirms its 36 th human case, in a 4-year-old girl from Qena (onset date 7 June 2007) (no epidemiological link between these two most recent Egyptian cases).
15 Jun 2007		Indonesia confirms its 100 th human case, in a 27- year-old man from Riau (onset date 3 June 2007).
22 Jun 2007	Czech Republic reports its first outbreak ever in poultry (in commercial turkeys).	

	Togo reports its first outbreak ever in poultry (in commercial chickens).	
25 June 2007	pounty (in commercial emekens).	Egypt confirms its 37 th human case, in a 4-year-old boy from Qena (onset date 20 June 2007).
		Indonesia confirms its 101 st human case, in a 3- year-old girl from Riau (onset date 18 June 2007).
26 Jun 2007	Germany reports H5N1 in wild birds found dead (first reports since detected in commercial poultry in April 2006).	
29 Jun 2007		Viet Nam confirms it first human cases
	Czech Republic reports H5N1 in a dead mute swan (first in wild birds since May 2006).	since November, 2005, in a 29-year-old man from Vinh Phuc (onset date 10 May 2007) and a 19-year-old man from Thai Nguyen (onset date 20 May 2007). No epidemiological link between these two cases has been identified. There have been 95 human cases in Viet Nam since 2003.
5 Jul 2007	France reports H5N1 in wild swans found dead (first report since detected in commercial turkeys in February 2006).	
6 Jul 2007	Germany reports H5N1 in a dead domestic goose	
11 Jul 2007		Indonesia confirms its 102 nd human case, in a 6-year-old girl from Banten (onset date 23 June 2007).
15 Jul 2007	Bangladesh Ministry of Agriculture reports continued H5N1 outbreaks in commercial and backyard poultry.	
25 Jul 2007		Egypt confirms its 38 th human case, in a 25-year-old woman from Damietta (onset date 20 July 2007).
26 Jul 2007	India reports H5N1 in backyard poultry (first report since April 2006).	
14 Aug 2007		Indonesia confirms its 103 rd human case, in a 29-year-old woman from Bali (onset date 3 August 2007).
15 Aug 2007		Research ²⁵ A study describing the epidemiology of 54 human cases of H5N1 infection in Indonesia is published. Conclusions included that 76% of cases were associated with poultry contact, and the source of infection was not identified in 24% of cases.
16 Aug 2007		Indonesia confirms its 104 th human case, in a 17-year-old woman from Banten (onset date 9 August 2007).
23 Aug 2007		Indonesia confirms its 105 th human case, in a 28-year-old woman from Bali (onset date 14 August 2007).
30 Aug 2007		The WHO criteria for accepting confirmed cases of A(H5) infection are amended.
31 Aug 2007		Based on amended acceptance criteria, Viet Nam retrospectively confirms its 96 th through 100 th cases, in a 28-year-old woman from Ha Nam (onset date 3 June

2007), a 29-year-old man (onset date 30, 2007) and a 15-year-old boy (onset date 27 July 2007) from Thanh Hoa, and a 20-year-old man (onset date 20 July 2007) from Ha Tay. 10 Sept 2007 Russia reports H5N1 in poultry (first report since January 2007). 15 Sept 2007 China reports H5N1 in commercial ducks in Guandong (first report since May 2007). 15 Sept 2007 China reports H5N1 in commercial ducks in Guandong (first report since May 2007). 16 China reports H5N1 in commercial ducks in Guandong (first report since May 2007). 17 Oct 2007 Russia reports H5N1 in unwaccinated ducks in Tra Vinh (first report since May 2007). 18 Oct 2007 According to FAO*, H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). 19 Oct 2007 According to FAO*, H5N1 has caussed recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Nyieria (in September) Viet Nam reports H5N1 in unwaccinated poultry in Bago (first report since August 2007). 10 Oct 2007 Nyammar reports H5N1 in unwaccinated poultry in 3 additional provinces. Nyiet Nam reports H5N1 in unwaccinated poultry in 3 additional provinces. Nov 2007 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Nov 2007 Viet Nam reports H5N1 in an allock of free-range turkeys in England (first since January 2007). 12 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Pakistan reports H5N1 in commercial, pounty in the North West Frontier (first outbreak in poultry in the North West Frontier (first outbreak in poultry in in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in backyard Nyammar reports H5N1 in backyard		1	T
date 27 July 2007) from Thanh Hoa, and a 20-year-old man (onset date 2 June 2007) and a 22-year-old woman (onset date 20 July 2007) from Ha Tay. Russia reports H5N1 in poultry (first report since January 2007). Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 25 August 2007).			2007), a 29-year-old man (onset date 30
20-year-old man (onset date 2 June 2007) and a 22-year-old woman (onset date 20 July 2007) from Ha Tay. 10 Sept 2007 10 Sept 2007 11 Sept 2007 15 Sept 2007 15 Sept 2007 2 Oct 2007 2 Oct 2007 3 Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 25 August 2007). 16 Sept 2007 2 Oct 2007 3 Indonesia confirms its 107th human case, in a 21-year-old man from Jakarta (onset date 18 September 2007). 11 Oct 2007 3 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). 12 Oct 2007 4 Cacording to FAO ³⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in 29un, Nigeria (in September). 24 Oct 2007 25 Oct 2007 31 Oct 2007 31 Oct 2007 4 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 25 Oct 2007 4 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 15 Nov 2007 5 Nov 2007 5 Nov 2007 5 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 16 Nov 2007 6 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 17 Nov 2007 6 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 18 Nov 2007 7 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 19 Nov 2007 7 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 19 Nov 2007 8 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 19 Nov 2007 10 Viet Nam reports H5N1 in a flock of free-range turkeys in England (first since January 2007). 19 Nov 2007 19 Nov 2007 19 Nov 2007 19 Nov 2007 20 Naminar reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). 20 Naminar reports H5N1 in a heakyard poultry in a new province (Shan state)			
and a 22-year-old woman (onset date 20 July 2007) Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 20 July 2007)			
New 2007 Sept 2007 Russia reports H5N1 in poultry (first report since January 2007). Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 25 August 2007).			
10 Sept 2007 Russia reports H5N1 in poultry (first report since January 2007). Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 25 August 2007).			and a 22-year-old woman (onset date 20
report since January 2007). Indonesia confirms its 10c th human case, in a 33-year-old man from Riau (onset date 25 August 2007). China reports H5N1 in commercial ducks in Guandong (first report since May 2007). Indonesia confirms its 107 th human case, in a 21-year-old man from Jakarta (onset date 28 Expember 2007). Indonesia confirms its 108 th human case, in a 21-year-old woman from Riau (onset date 18 Experamber 2007). Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 108 th human case, in a 44-year-old woman from Riau (onset date 18 Experamber 2007). Indonesia confirms its 109 th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Youn, Nigeria (in September). Indonesia confirms its 110 th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 110 th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 110 th human case, in a 12-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirm			July 2007) from Ha Tay.
Indonesia confirms its 106th human case, in a 33-year-old man from Riau (onset date 25 August 2007).	07 Sept 2007	Russia reports H5N1 in poultry (first	
in a 33-year-old man from Riau (onset date 25 August 2007). China reports H5N1 in commercial ducks in Guandong (first report since May 2007). Cot 2007	o. Sept 200.	report since January 2007).	
Indonesia confirms its 109th human case, in a 12-year-old man from Riau (onset date 25 August 2007).	10 Sept 2007		Indonesia confirms its 106 th human case,
China reports H5N1 in commercial ducks in Guandong (first report since May 2007). Indonesia confirms its 107th human case, in a 21-year-old man from Jakarta (onset date 18 September 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 18 September 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 18 Cotober 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 10 October 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Indonesia confirms its 110th human case, in a 12-year-old girl from Banten (onset date 30 Oct 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 30 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 30-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 112th human case, in a 31-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 110th human case, in a 31-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 110th human case, in a 31-year-old woman from Banten (onset	10 Bept 2007		in a 33-year-old man from Riau (onset
15 Sept 2007 China reports H5N1 in commercial ducks in Guandong (first report since May 2007). Indonesia confirms its 107th human case, in a 21-year-old man from Jakarta (onset date 18 September 2007). Indonesia confirms its 108th human case, in a 41-year-old woman from Riau (onset date 18 October 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 1 October 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 1 October 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 30 September 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 5-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten (onset date 30 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 112th human case, in a 3-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 112th human case, in a 3-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 30 September 2007). Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 30 September 2007). Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 30 September 2007). Indonesia confirms			
in Guandong (first report since May 2007). Indonesia confirms its 107th human case, in a 21-year-old man from Jakarta (onset date 18 September 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 18 September 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 10 Cotober 2007). Indonesia confirms its 109th human case, in a 44-year-old woman from Riau (onset date 1 October 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 109th human case, in a 19-year-old boy from Banten (onset date 30 September 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 30-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 30-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 110th human case, in a 31-year-old man from Banten (onset date 14 October 2007). Indonesia confirms its 10th human case, in a 31-year-old man from Banten (onset date 25 October 2007). Indonesia confirms its 10th human case, in a 31-year-old man from Banten (onset date 25 October 2007). Indonesia confirms its 110th human case, in a 31-year-old man from Banten (onset date 25 October 2007). Indonesia confirms its 110th human case, in a 31-year-old man from Banten (onset date 31 October 2007)	15 Camt 2007	China reports H5N1 in commercial ducks	
2 Oct 2007. 2 Oct 2007 8 Oct 2007 8 Oct 2007 11 Oct 2007 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). 12 Oct 2007 15 Oct 2007 According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 25 Oct 2007 10 Oct 2007 11 Oct 2007 According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 25 Oct 2007 16 Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 5-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 5-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten (onset date 12 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 111 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 111 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in backyard poultry in a new province (Shan state)	13 Sept 2007		
2 Oct 2007 8 Oct 2007 11 Oct 2007 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). 12 Oct 2007 According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Viet Nam reports H5N1 in commercial poultry in Ogun, Nigeria (in September). Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Nov 2007 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 108th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 109th human case, in a 5-year-old girl from Banten (onset date 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 110th human case, in a 3-year-old boy from Banten (onset date 23 October 2007). Indonesia confirms its 110th human case, in a 3-year-old downam from Riau (onset date 23 October 2007). Indonesia confirms its 110th human case, in a 3-year-old downam from Riau (onset date 23 October 2007). Indonesia confirms its 110th human case, in a 3-year-old and man from Riau (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in commercial, poultry in a new province (Shan state)			
8 Oct 2007 8 Oct 2007 11 Oct 2007 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). 12 Oct 2007 According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in unvaccinated poultry in Bago (first report since August 2007). Indonesia confirms its 109 th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 3-year-old woman from Banten (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 3-year-old woman from Banten (onset date 31 October 2007). Saudi Arabia reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in boman case, in a 3-year-old woman from Banten (onset date 31 October 2007). Myanmar reports H5N1 in boman case, in a 31-year-old man from Riau (onset date 31 October 2007). Myanmar reports H5N1 in commercial, poultr	2.0 . 2007	2007).	Indonesia confirms its 107th human case
8 Oct 2007 8 Oct 2007 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 1 October 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Ogun, Nigeria (in September). Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both as 3-year-old boy from Banten. Both 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in beckyard poultry in a new province (Shan state)	2 Oct 2007		
Indonesia confirms its 108th human case, in a 44-year-old woman from Riau (onset date 1 October 2007).			
in a 44-year-old woman from Riau (onset date 1 October 2007). Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO 5, H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 4 Oct 2007 Waynmar reports H5N1 in commercial poultry in Ogun, Nigeria (in September). Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 111th human case, in a 3-year-old boy from Banten (onset date 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Riau (onset date 31 October 2007). Pakistan reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in backyard poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			date to September 2007).
date 1 October 2007).	8 Oct 2007		
11 Oct 2007 Viet Nam reports H5N1 in unvaccinated ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Ogun, Nigeria (in September). Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			•
ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Riau (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry ince July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			date 1 October 2007).
ducks in Tra Vinh (first report since August 2007). Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Doultry in Bago (first report since August 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry ince July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	11 Oct 2007		
Indonesia confirms its 109th human case, in a 12-year-old boy from Banten (onset date 30 September 2007).		ducks in Tra Vinh (first report since	
in a 12-year-old boy from Banten (onset date 30 September 2007). According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). According to FAO ²⁶ , H5N1 in commercial poultry in Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in backyard poultry in a new province (Shan state)		August 2007).	
15 Oct 2007 According to FAO ³⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Myanmar reports H5N1 in commercial poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Nov 2007 Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Saudi Arabia reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	12 Oct 2007		Indonesia confirms its 109 th human case,
According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007	12 001 2007		in a 12-year-old boy from Banten (onset
According to FAO ²⁶ , H5N1 has caused recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Nov 2007 Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007).			
recent outbreaks in poultry in 19 districts in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Riau (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old woman from Riau (onset date 23 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	15 Oat 2007	According to FAO ²⁶ , H5N1 has caused	,
in Bangladesh and 4 districts in Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	13 OCt 2007		
Indonesia, and in commercial poultry in Ogun, Nigeria (in September). 24 Oct 2007 Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
Ogun, Nigeria (in September). Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 5-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Nov 2007 Indonesia confirms its 112 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in backyard poultry in a new province (Shan state)			
24 Oct 2007 Myanmar reports H5N1 in commercial poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Nov 2007 Indonesia confirms its 111 th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
poultry in Bago (first report since August 2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
2007). Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	24 Oct 2007		
Indonesia confirms its 110 th human case, in a 5-year-old girl from Banten (onset date 14 October 2007). Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 111 th human case, in a 3-year-old boy from Banten. Both this case and the 110 th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112 th human case			
in a 5-year-old girl from Banten (onset date 14 October 2007). Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 3-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Pakistan reports H5N1 in backyard poultry in a new province (Shan state)		2007).	T 1 0th 1
Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 5 Nov 2007 12 Nov 2007 13 Nov 2007 14 Nov 2007 15 Nov 2007 16 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 20 Nov 2007 21 Nov 2007 22 Nov 2007 23 Nov 2007 24 Nov 2007 25 Nov 2007 26 Myanmar reports H5N1 in backyard poultry in a new province (Shan state) 26 Nov 2007 28 Nov 2007 28 Nov 2007 28 Nov 2007 29 Nov 2007 20 Nov 2007 30 Agadi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). 28 Nov 2007 30 Agadi Arabia reports H5N1 in backyard poultry in a new province (Shan state)	25 Oct 2007		
Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. Indonesia confirms its 111th human case, in a 3-year-old boy from Banten. Both this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 Octob			
Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 5 Nov 2007 5 Nov 2007 12 Nov 2007 12 Nov 2007 13 Nov 2007 15 Nov 2007 16 Viet Nam reports H5N1 in unvaccinated poultry in 3 additional provinces. 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 10 VK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). 19 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 Viet Nam reports H5N1 in a flock of free-range turkeys in England (first since January 2007). 19 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 Viet Nam reports H5N1 in a flock of free-range turkeys in England (first since January 2007). 15 Nov 2007 16 Nov 2007 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 10 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 Viet Nam reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 10 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 October, but no epidemiological link between them has been identified. 16 Nov 2007 17 Indonesia confirms its 112th human case, in a 31-year-old woman from Banten (onset date 23 October 2007). 18 Nov 2007 19 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 October, but no epidemiological link between them has been identified. 16 Nov 2007 17 Nov 2007 18 Nov 2007 18 Nov 2007 19 Nov 2007 10 Nov 2007 10 Nov 2007 10 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 October, but no epidemiological link between them has been identified. 16 Nov 2007 17 Nov 2007 18 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 10 Nov 2007 10 Nov 2007 10 Nov 2007 10 Nov 2007 11 Ndonesia confirms its 112th human case, in a 31-year-old woman from Riau (onset date 23 October 2007). 19 Nov 2007 10 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 October 2007 15 Nov 2007 16 Nov 2007 17 Nov 2007 18 Nov 2007 18			
this case and the 110th case became ill on 14 October, but no epidemiological link between them has been identified. Indonesia confirms its 112th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	31 Oct 2007		
poultry in 3 additional provinces. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)		Viet New reports USN1 in unvessionated	in a 3-year-old boy from Banten. Both
5 Nov 2007 12 Nov 2007 12 Nov 2007 13 Nov 2007 15 Nov 2007 16 Nov 2007 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 10 Nov 2007 10 Nov 2007 10 Nov 2007 11 Nov 2007 12 Nov 2007 13 Nov 2007 14 October, but no epiteminological mix between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). Saudi Arabia reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			this case and the 110 th case became ill on
between them has been identified. Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). Indonesia confirms its 113 th human case, in a 31-year-old man from Riau (onset date 31 October 2007). UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)		pountry in 3 additional provinces.	14 October, but no epidemiological link
Indonesia confirms its 112 th human case, in a 30-year-old woman from Banten (onset date 23 October 2007). 12 Nov 2007 13 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. 22 Nov 2007 Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			between them has been identified.
in a 30-year-old woman from Banten (onset date 23 October 2007). 12 Nov 2007 13 Nov 2007 14 Nov 2007 15 Nov 2007 16 VK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). 16 Nov 2007 17 Nov 2007 18 Nov 2007 19 Nov 2007 19 Nov 2007 20 Nov 2007 20 Nov 2007 21 Nov 2007 22 Nov 2007 23 Nov 2007 24 Nov 2007 25 Nov 2007 26 Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	5 Nov 2007		
12 Nov 2007 13 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	J INOV 2007		
Indonesia confirms its 113th human case, in a 31-year-old man from Riau (onset date 31 October 2007). UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
in a 31-year-old man from Riau (onset date 31 October 2007). 13 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	12 N - 2007		
date 31 October 2007). 13 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	12 Nov 2007		
13 Nov 2007 UK reports H5N1 in a flock of free-range turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
turkeys in England (first since January 2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	4037 200=	IIK reports H5N1 in a fleak of free range	date 31 October 2007).
2007). Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	13 Nov 2007		
19 Nov 2007 Saudi Arabia reports H5N1 in commercial chickens in four areas of Ar Riyad. Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
commercial chickens in four areas of Ar Riyad. 22 Nov 2007 Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
Riyad. 22 Nov 2007 Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	19 Nov 2007		
22 Nov 2007 Pakistan reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007). Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
poultry in the North West Frontier (first outbreak in poultry since July 2007). 23 Nov 2007 Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
poultry in the North West Frontier (first outbreak in poultry since July 2007). 23 Nov 2007 Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	22 Nov 2007	Pakistan reports H5N1 in commercial,	
outbreak in poultry since July 2007). 23 Nov 2007 Myanmar reports H5N1 in backyard poultry in a new province (Shan state)	2007	poultry in the North West Frontier (first	
23 Nov 2007 Myanmar reports H5N1 in backyard poultry in a new province (Shan state)			
poultry in a new province (Shan state)	23 Nov 2007		
	23 INOV 2007		
Komama reports ri31\tim backyard	27 Nov. 2007		
	27 INOV 2007	кошана терон в пэтчтіі васкуага	

	poultry in Tulcea (first outbreak in	
	poultry since May 2006).	
3 Dec 2007	Poland reports H5N1 in young turkeys in	
	Mazowieckie (first outbreak ever in	
	poultry, last H5N1 reported in a wild swan in May 2006).	
	Egypt retrospectively reports 579	
	outbreaks of H5N1 in birds from 23	
	March 2006 through 24 November 2007.	db.
4 Dec 2007		China confirms its 26 th human case, in a
		24-year-old man from Jiangsu (onset date 24 November 2007).
5 Dec 2007	Benin reports highly pathogenic avian	2+1101cmber 2007).
3 Dec 2007	influenza (not confirmed as H5N1) in	
	poultry in Cotonou and Adjara (first	
	HPAI outbreak ever reported in Benin).	
0.D. 2007	Later reported as H5N1by FAO. ²⁷	China confirms its 27 th human case, in a
9 Dec 2007		52-year-old man from Jiangsu (onset date
		3 December 2007), who is the father of
-		the 26 th case.
12 Dec 2007	Russia reports H5N1 in poultry in	
	Rostovskaya (first outbreak in poultry since September 2007).	
	Pakistan reports additional H5N1	Indonesia confirms its 114 th human case,
	outbreaks in commercial poultry in North	in a 28-year-old woman from Banten
	West Frontier and Punjab provinces.	(onset date 1 December 2007).
	Poland reports H5N1 in birds in a second	
	province (Warminsko-Mazurskie).	
13 Dec 2007		Indonesia confirms its 115 th human case,
13 Dec 2007		in a 47-year-old man from Banten (onset
		date 2 December 2007).
14 Dec 2007		Myanmar confirms its first human case,
		in a 7-year-old girl from Shan State (onset date 21 November 2007).
15 Dec 2007		Pakistan informs WHO of 8 people in the
13 Dec 2007		North West Frontier Province that have
		tested positive for H5N1 in the national
		reference laboratory. These are the first suspected human cases ever reported in
		Pakistan. The presence of virus was
		confirmed in samples from one of these
		patients, a 25-year-old man from
	A II / FA 027 MOVE	Peshawar (onset date 21 November).
17 Dec 2007	According to FAO ²⁷ , H5N1has continued to cause outbreaks in poultry in areas of	
	l Indonesia (Bali, Java, Siilawesi	
	Indonesia (Bali, Java, Sulawesi, Sumatra) and Viet Nam (Tra Vinh, Cao	
	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	
	Sumatra) and Viet Nam (Tra Vinh, Cao	The contract of the contract o
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	Indonesia confirms its 116 th human case,
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta (onset date 14 December 2007).
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta (onset date 14 December 2007). Egypt confirms its 39 th human case, in a 25-year-old woman from Beni Sweif
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta (onset date 14 December 2007). Egypt confirms its 39 th human case, in a 25-year-old woman from Beni Sweif (onset date 23 December 2007). This is
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta (onset date 14 December 2007). Egypt confirms its 39 th human case, in a 25-year-old woman from Beni Sweif (onset date 23 December 2007). This is the first case confirmed by Egypt since
26 Dec 2007	Sumatra) and Viet Na m (Tra Vinh, Cao Bang, Quang Tri) in November and	in a 24-year-old woman from Jakarta (onset date 14 December 2007). Egypt confirms its 39 th human case, in a 25-year-old woman from Beni Sweif (onset date 23 December 2007). This is

	1	1 7 7 1 2007) 17 1
		date 7 December 2007). The last case confirmed by Viet Nam had an onset of
		July 2007.
		Egypt confirms its 40 th human case in a
		50-year-old woman from Domiatt (onset
		date 24 December 2007) and its 41 st
		human case in a 22-year-old woman from
		Menofia (onset date 26 December 2007).
29 Dec 2007	Myanmar reports ongoing outbreaks of	
	H5N1 in backyard poultry in Shan state.	
31 Dec 2007	Benin reports H5N1 in poultry in two	
	new provinces (Dangbo and Porto Novo)	
3 Jan 2008	Israel reports H5N1 in birds in a petting	
	zoo in Haifa (first outbreak since March	
	2006)	and a
2 Jan 2008		Egypt confirms its 42 nd human case in a
		25-year-old woman from Dakahlia (onset
		date 26 December) and its 43 rd human
		case in a 36-year-old woman from
	China and HENT	Menofia (onset date 26 December 2007).
4 Jan 2008	China reports H5N1 in poultry in	
	Xinjiang (first outbreak reported in this province since September 2006)	
	Viet Nam reports H5N1 in poultry in 4	
7 Jan 2008	provinces (Tra Vinh, Cao Bang, Thai	
	Nguyen, and Quang Tri).	
11.1 2000	Tiguyen, and Quang 111).	Indonesia confirms its 117 th human case,
11 Jan 2008		in a 16-year-old girl from West Java
		(onset date 30 December 2008)
15 Jan 2008	India reports H5N1 in backyard and	(onset date 30 December 2000)
13 Jan 2008	commercial poultry in West Bengal State	
	(first since July 2007).	
		Indonesia confirms its 118 th human case,
	Egypt reports widespread H5N1	in a 32-year-old woman from Banten
	outbreaks in backyard and commercial	(onset date 3 January 2008)
	poultry (including in vaccinated poultry)	
	in 17 governorates during December and	
	early January.	
16 Jan 2008	Iran reports H5N1 in backyard poultry in	
	Mazandaran (first since February 2006).	di.
21 Jan 2008	Ukraine reports H5N1 in poultry in	Indonesia confirms its 119 th human case,
	Crimea (first since June 06).	in an 8-year-old boy from Banten (onset
		date 7 January 2008).
22 Jan 2008	Germany reports ongoing outbreaks of	
	H5N1 in backyard birds in Brandenburg.	
	Turnbour nonconto HENII in healtheand	
	Turkey reports H5N1 in backyard	
	poultry in Zonguldak (first report since February 2007).	
22.1 2222	Thailand reports H5 in poultry in	Indonesia confirms its 120 th human case,
23 Jan 2008	Nakhon Sawan and Phichit (first reports	in a 30-year-old man from Banten (onset
	since March 2007).	date 13 January 2008).
047 0000	Since March 2007).	Viet Nam confirms its 102 nd human case
24 Jan 2008		in a 34-year-old man from Tuyen Quang
		(onset date 10 January 2008).
20 In 2000		Indonesia confirms its 121 st human case
29 Jan 2008		in a 31-year-old woman from Jakarta
	China reports H5N1 in poultry in the	(onset date 18 January 2008), its 122 nd
	Tibet Autonomous Region (first report in	human case in a 9-year-old boy from
	this province since March 2007).	West Java (onset date 16 January 2008),
		123 rd human case in a 32-year-old man
	ļ	

		from Banten (onset date 17 January
		2008), and its 124 th human case in a 23-year-old woman from Jakarta (onset date 19 January 2008).
2 Feb 2008	Pakistan reports outbreaks of H5N1 on commercial farms in Sindh (Karachi)(first reports since November 2007).	
5 Feb 2008	China retrospectively reports H5N1 in two wild birds in Tuen Mun Park, Hong Kong SAR (detected in November and December 2007).	Indonesia confirms its 125 th human case in a 29-year-old woman from Banten (onset date 22 January 2008), and its 126 th human case in a 38-year-old woman from Jakarta (onset date 24 January 2008).
6 Feb 2008	United Kingdom continues to report sporadic deaths due to H5N1 in mute swans in southern England (detected in November and December 2007).	
11 Feb 2008	According to FAO ²⁸ , Indonesia continues to experience outbreaks of H5N1 in poultry.	
12 Feb 2008		Indonesia confirms its 127 th human case in a 15-year-old girl from Jakarta (onset date 2 February 2008)
13 Feb 2008	Laos reports H5N1 in poultry in Luang Namtha (first report since February, 2007)	
15 Feb 2008		Viet Nam confirms its 103 rd human case, in a 40-year-old man from Hai Duong (onset date 2 February 2008).
17 Feb 2008	Saudi Arabia reports H5N1 in poultry in Ar Riyad, outbreaks dated from Oct 07 through Jan 08.	
18 Feb 2008	Nigeria reports H5N1 in poultry in Anambra (first report since March 2006).	
20 Feb 2008	Pakistan reports new H5N1 outbreaks in poultry in North West Frontier province.	China confirms its 28 th human case, in a 22-year-old man from Hunan (onset date 16 January 2008).
21 Feb 2008		Indonesia confirms its 128 th human case in a 16-year-old man from Central Java (onset date 3 February 2008), and its 129 th human case in a 3-year-old boy from Jakarta (onset date 3 February 2008). Viet Nam confirms its 104 th human case in a 27-year-old man from Ninh Binh (onset date 3 February 2008)
22 Feb 2008		China confirms its 29 th human case, in a 41-year-old man from Guanxi Autonomous Region (onset date 12 February 2008).
25 Feb 2008	Viet Nam continues to report outbreaks of H5N1 in poultry from several provinces. China reports H5N1 in poultry in a new province, Guizhou (first report from this province since January 2006).	
26 Feb 2008	Turkey reports H5N1 in poultry in a new province, Sinop.Pakistan reports new H5N1 outbreaks in poultry in Sindh province.	China confirms its 30 th human case, in a 44-year-old woman from Guangdong (onset date 16 February). Viet Nam confirms its 105 th human case, in a 23-year-old-woman from Phu Tho (onset date 14 February).

28 Feb 2008		Egypt confirms its 44 th human case in a 4-year-old girl from Minea (onset date 21
		February).
1 Mar 2008	Myanmar reports AI-seropositive ducks detected during surveillance in Shan State (serotype not reported).	
4 Mar 2008	(4444)	Egypt confirms its 45 th human case in a 26-year-old woman from Fayoum (onset date 24 February).
5 Mar 2008		Egypt confirms its 46 th human case in a 11-year-old boy from Minea (ospitalization date 26 February).
9 Mar 2008	According to the Ministry of Fisheries and Livestock in Bangladesh , 47 districts have now had confirmed outbreaks of H5 infection in birds. According to the Department of Animal Husbandry, Dairying, and Fisheries in India , additional H5 infection in birds has been confirmed in West Bengal.	
10 Mar 2008	Pakistan reports new H5N1 outbreaks in poultry in North West Frontier Province.	
11 Mar 2008		Egypt confirms its 47 th human case in a 8-year-old boy from Fayoum (ospitalization date 3 March 2008).
16 Mar 2008	China reports H5N1 in poultry at a live animal market in Guangdong According to FAO, HPAI is still being detected in poultry on three islands of Indonesia, Bali, Java, and Sumatra.	Viet Nam confirms its 106 th human case, in an 11-year-old boy from Ha Nam (onset date 4 March).
18 Mar 2008	Turkey reports H5N1 in backyard poultry in Edirne	
25 Mar 2008	Research ³⁰ A study is published describing the epidemiological association between the presence of H5N1 virus and duck populations, human populations, and rice production in Viet Nam and Thailand.	
28 Mar 2008	India reports additional outbreaks in backyard poultry in West Bengal	
31 Mar 2008	Switzerland reports H5N1 in a healthy wild bird in Luzern Canton (first report in country since June 2006).	
1 Apr 2008	Viet Nam continues to report outbreaks of H5N1 in poultry from several provinces.	
2 Apr 2008	Republic of Korea reports H5N1 in poultry in Cholla-Bukdo (first report in country since June 2007)	Indonesia confirms its 130 th human case, in a 15-year-old boy from West Java (onset date 19 March 2008), its 131 st human case in a 11-year-old girl from West Java (onset date 19 March 2008) and its 132 nd human case in a 21-month old girl from West Sumatra (onset date 17 March 2008). There has been no epidemiological link identified among the cases.
3 Apr 2008		Pakistan confirms two additional cases in a family cluster in North West Frontier Province in Oct-Nov 2007, suggesting limited human to human transmission

		likely occurred. These additional cases were confirmed serologically according to WHO criteria, and brings the cumulative
-		number of human cases in Pakistan to 3.
8 Apr 2008	India reports H5N1 in backyard poultry in a new province, Tripura.	Egypt confirms its 48 th human case in a 19-year-old man from Behera (onset date 30 March 2008).
11 Apr 2008	Russian Federation reports H5N1 in village poultry in Primorskiy Kray (first report since December, 2007).	
15 Apr 2008	Republic of Korea reports H5N1 in poultry in two new provinces (Cholla-Namdo and Ch'ungch'ong-Bukdo)	Egypt confirms its 49 th human case in a 30-year-old woman from Cairo (onset date 2 April 2008).
17 Apr 2008		Egypt confirms its 50 th human case in a 2-year-old boy from Sharkia (onset date 13 April 2008).
23 Apr 2008	Viet Nam continues to report outbreaks of H5N1 in poultry from several provinces.	
24 Apr 2008	Bangladesh reports 156 outbreaks in commercial or backyard poultry in 6 provinces from 28 Dec 2007 through 14 Apr 2008 (Dhaka, Chittagong, Khulna, Rajshashi, Barasil, Sylhet)	
29 Apr 2008	Japan reports H5N1 in 4 dead/ill wild swans in Akita prefecture (first report of H5N1 in birds in Japan since January 2007).	
30 Apr 2008		Indonesia confirms its 133 rd human case in a 3-year-old boy from Central Java (onset date 14 April).
13 May 2008	Japan reports H5N1 in wild swans in Hokkaido prefecture.	
20 May 2008	Republic of Korea reports outbreaks in poultry in 10 provinces.	
28 May 2008		Bangladesh confirms it first human case, in a 16-month-old boy from Komalapur, Dhaka (onset date 27 Jan 2008). The case was identified retrospectively as part of seasonal influenza surveillance activities.
1 Jun 2008	Japan reports H5N1 in wild swans in Aomori prefecture.	
3 Jun 2008	India reports H5N1 in backyard birds in West Bengal province	
6 Jun 2008	United Kingdom reports highly pathogenic avian influenza H7N7 in a commercial flock of chickens in England.	
11 Jun 2008	Bangladesh reports H5N1 in commercial poultry in Dhaka	
16 Jun 2008	According to FAO, HPAI remains endemic in Indonesia on the islands of Java, Sumatra, Bali, and South Sulawesi and sporadic outbreaks are reported from other areas. ³¹	
19 Jun 2008		Indonesia confirms its 134 th human case in a 16-year old girl from DKI Jakarta (onset date 7 may 2008) and 135 th human case, in a 34-year-old woman from Banten (onset date 26 May 2008).
20 Jun 2008	China reports H5N1 in poultry in	

Guandong (Irist report of HSNI in brids in Guandong since March 2008). Pakistan reports outbreak of HSNI in commercial polluty in North West Frontier province (Irist report of HSNI in birds in Pakistan since March 2008).			
Pakistan reports outbreak of H5N1 in commercial poultry in North West Frontier province (first report of H5N1 in birds in Pakistan since March 2008).		Guandong (first report of H5N1 in birds	
commercial poultry in North West Frontier province (first report of H5N1 in birds in Pakistan since March 2008). 7 Jul 2008 8 Egypt reports outbreaks in 9 governorates (Gharbiyah, Minufnyah, Kafr Ash Shaykh, Daqahliyah, Sharqiyah, Minya, Jizah, Suhaj, and Luxon ji no commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008 14 Jul 2008 15 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/(first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Benjin report of routine surveillance and training (first report of H5 in Beniin since Dec, 2007). 10 Sept 2008 Reniin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Beniin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (orse date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). 14 Sept 2008 Resident from the Région Maritime (first report of H5N1 in Togo since July 2007). Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Man, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July - April 2008. Russian Federation retrospectively report site woutbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in beakyard chickens in one additional province (Xayabury)			
Frontier province (first report of HSN1 in birds in Pakistan since March 2008). Fgypt reports outbreaks in 9 governorates (Gharbiyah, Minufyah, Kafr Ash Shaykh, Daqahilyah, Sharqiyah, Minya, Jizah, Suhaj, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares HSN1 to be endemic in Egypt. 14 Jul 2008 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/first report of HSN1 in Viet Nam since April, 2008). Nigeria reports HSN1 infection in poultry in 4 states (Kebbi, Gombe, Katisna, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports HSN1 in Indonesia, in village poultry in Bengkulu province surveillance. FAO reports HSN1 in Indonesia, in village poultry in Bengkulu province willage poultry in Bengkulu province scases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). 10 Sept 2008 Laos reports HSN1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). 18 Sept 2008 Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the Country (Ben July 2007). 7 Togo since July 2007. 30 Sept 2008 Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the Country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Russian Federation retrospectively report of H5N1 in Dackyard chickens in none additional province (Xayabury) Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	26 Jun 2008		
For the content of the country (Can Tho City, Ha Tinh, Kind Cing)			
Egypt reports outbreaks in 9 governorates (Gharbiyah, Minufiyah, Kafr Ash Shaykh, Daqahliyah, Sharqiyah, Minya, Jizah, Suhaj, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can The City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008			
(Gharbiyah, Minuffyah, Kafr Ash Shaykh, Daqahliyah, Sharqiyah, Minya, Jizah, Suhaj, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. Viet Nam reports 15 oubreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of HSN1 in Viet Nam since April, 2008). Nigeria reports H5N1 in flection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. FAO reports H5N irin Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		birds in Pakistan since March 2008).	
Gharbiyah, Minufiyah, Kafr Ash Shaykh, Daqahiyah, Sharqiyah, Minunya, Jizah, Suhaj, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008	7 Jul 2008	Egypt reports outbreaks in 9 governorates	
Jizah, Suhaj, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008	, 541 2000	(Gharbiyah, Minufiyah, Kafr Ash	
and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Longy (first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. Surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). 14 Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province ((Xayabury))		Shaykh, Daqahliyah, Sharqiyah, Minya,	
and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Longy (first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. Service agas were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Loss since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July - April 2008. Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		Jizah, Suhaj, and Luxor) in commercial	
bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. 14 Jul 2008 14 Jul 2008 15 Jul 2008 16 Jul 2008 17 Jul 2008 18 Sept 2008 19 Jul 2008 10 Oct 2008 10 Oct 2008 10 Nov 2008 10 Nov 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Nov 2008 10 Jul 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 2008 10 Nov 2008 10 Nov 2008 10 Nov 2008 10 Jul 2008 10 Jul 2008 10 Nov 200		and backyard poultry, and poultry in live	
In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 in fection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province ²² Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). 14 Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). 18 Sept 2008 Nigeria reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
Services (GOVS) declares H5N1 to be endemic in Egypt. Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008). 24 Jul 2008 Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province value and training (first report of H5 in Benin since Dec, 2007). Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskay and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		In this report, the national veterinary	
endemic in Egypt. Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008. Nigeria reports H5N1 in fection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. PAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. Each growth of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Laos reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya.			
14 Jul 2008 Viet Nam reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/(first report of H5N1 in Viet Nam since April, 2008).			
in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/(first report of HSN1 in Viet Nam since April, 2008). Nigeria reports HSN1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. FAO reports HSN1 in Indonesia, in village poultry in Bengkulu province ³² Benin reports H5N1 in Indonesia, in village poultry in Bengkulu province ³² Benin reports H5N1 in Kokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136 th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Is Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Int 2008		
(Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/(Ifist report of HSN1 in Viet Nam since April, 2008). Nigeria reports HSN1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province ¹² Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Luangprobang and Oudomxay provinces (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Jul 2006		
Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long/(first report of HSN1 in Viet Nam since April, 2008). 24 Jul 2008 Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. 26 Aug 2008 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Region Maritime (first report of H5N1 in Togo since July 2007). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
Tra Vinh, Vinh Long)(first report of H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 in fection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province ²² Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136 th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008). Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
H5N1 in Viet Nam since April, 2008). Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province 22 village poultry in Bengkulu province 23 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Oct 2008 Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
24 Jul 2008 Nigeria reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance.			
in 4 states (Kebbi, Gombe, Katsina, and Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province ²² 25 Aug 2008 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	24 Jul 2009		
Kano). The two live bird market cases were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. FAO reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) To Oct 2008 Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	24 Jul 2008		
were detected through routine surveillance. 25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province 32 25 Aug 2008 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Toct 2008 Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
surveillance. FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province. Semin reports H5 Virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 4 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
25 Jul 2008 FAO reports H5N1 in Indonesia, in village poultry in Bengkulu province 22 25 Aug 2008 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Toct 2008 Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
village poultry in Bengkulu province ³² 25 Aug 2008 Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136 th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	25 I-1 2000		
Benin reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008).	25 Jul 2008		
live animal market in Lokassa. These cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	25.4		
cases were detected as part of routine surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	-		
surveillance and training (first report of H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	2008		
H5 in Benin since Dec, 2007). Indonesia confirms its 136th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
Indonesia confirms its 136 th human case in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man from Banten (onset date 20 July 2008). 14 Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). 18 Sept 2008 Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			
in a 38-year old man from Banten province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		115 in Benni since Bee, 2007).	
province (onset date 4 July 2008) and 137th human case, in a 20-year-old man from Banten (onset date 20 July 2008). Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	10.0 . 2000		Indonesia confirms its 136 th human case
14 Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Wiet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	10 Sept 2008		
14 Sept 2008 Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	10 Sept 2008		in a 38-year old man from Banten
Laos reports H5N1 in poultry in Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	10 Sept 2008		in a 38-year old man from Banten province (onset date 4 July 2008) and
Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	10 Sept 2008		in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
(first report of H5N1 in Laos since February, 2008). 18 Sept 2008 Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		I not reports H5N1 in poultry in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
February, 2008). 18 Sept 2008 Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). 30 Sept 2008 Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)			in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). 30 Sept 2008 Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		Luangprobang and Oudomxay provinces	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)		Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008).	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
30 Sept 2008 Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007).	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
from July -April 2008. 10 Oct 2008 Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
10 Oct 2008 Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap,	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai)	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Germany since January 2008) 15 Oct 2008 Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008.	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
15 Oct 2008 Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
February in Moskovskaya and in December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008)	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
December in Rostovskaya. 10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
10 Nov 2008 Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
in one additional province (Xayabury)	14 Sept 2008 18 Sept 2008 30 Sept 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
	14 Sept 2008 18 Sept 2008 30 Sept 2008 10 Oct 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya.	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
Thailand reports H5N1 in backyard	14 Sept 2008 18 Sept 2008 30 Sept 2008 10 Oct 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
I nailand reports H5N1 in backyard	14 Sept 2008 18 Sept 2008 30 Sept 2008 10 Oct 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man
	14 Sept 2008 18 Sept 2008 30 Sept 2008 10 Oct 2008	Luangprobang and Oudomxay provinces (first report of H5N1 in Laos since February, 2008). Togo reports H5N1 in poultry in the Région Maritime (first report of H5N1 in Togo since July 2007). Viet Nam reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July -April 2008. Germany reports H5N1 in poultry on a farm in Sachen (first report of H5N1 in Germany since January 2008) Russian Federation retrospectively reports two outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya. Laos reports H5N1 in backyard chickens in one additional province (Xayabury)	in a 38-year old man from Banten province (onset date 4 July 2008) and 137 th human case, in a 20-year-old man

	1, 1, 0, 11, 11, 11, 11, 11, 11, 11, 11,	Г
	poultry in Sukhothai province (first report	
	of H5N1 in Thailand since January 2008)	
11 Nov 2008	Thailand reports an additional H5N1	
	outbreak in poultry in a new province, Uthai Thani	
20 Nov 2008	Bangladesh reports H5N1 in commercial	
	poultry in Rajshahi district from	
	September, 2008 (First report of H5N1 in	
	Bangladesh since June 2008).	
27 Nov 2008	Viet Nam reports H5N1 in Nghe An	
-	province.	
28 Nov 2008	India reports H5N1 in village poultry in	
	Assam province (First report of H5N1 in	
-	India since May 2008)	
1 Dec 2008	Lao PDR retrospectively reports H5N1 in	
	Luangnamtha province from February	
	2008 (more recent outbreaks were	
	reported in October, 2008)	
3 Dec 2008	Bangladesh Ministry of Fisheries and	
	Livestock reports a new H5N1 outbreak	
	in poultry in Rajshahi district (Rangpur	
	sub-district).	Indonesia confirms its 138 th human case
9 Dec 2008		
		in a 9-year-old girl from Riau province
		(onset date 7 November 2008) and 139 th
		human case in a 2-year-old girl from East
		Jakarta province (onset date 18 November
	To die nomente editione al IISNI enclanado	2008).
11 Dec 2008	India reports additional H5N1 outbreaks	
	in backyard and commercial poultry in	
	several districts of Assam province.	Cambodia confirms its 8 th human case in
12 Dec 2008	Hong Kong (China SAR) reports an	
	H5N1 outbreak in commercial poultry in	a 19 year-old man from Kandal province (onset date 28 November 2008). This is
	Yuen Long (first report of H5N1 in commercial poultry in Hong Kong since	the first non-fatal case of human H5N1
	2002).	infection in Cambodia.
168 2000	2002).	Egypt confirms it 51 st human case, in a
16 Dec 2008		16-year-old girl from Assuit Governorate
		(onset date, 8 December 2008).
15 D 2000	India reports H5N1 outbreaks in	(onset date, o December 2000).
17 Dec 2008	backyard poultry in a new province, West	
	Bengal province.	
	Bengui province.	
	Bangladesh reports H5N1 outbreaks in	
	commercial poultry in a new district,	
	Dhaka district.	
19 Dec 2008	China reports H5N1 outbreaks in poultry	
19 Dec 2006	in Jiangsu province (first outbreak	
	reported by China since June, 2008, in	
	Guangdong)	
	According to the Update on the Avian	
	Influenza Situation (Issue No. 182) in	
	Cambodia, ducks were confirmed H5N1	
	positive in Kandal province ³³ (first	
	outbreak reported by Cambodia since	
	April 2007).	
29 Dec 2008	Viet Nam reports an H5N1 outbreak in	
27 Dec 2000	poultry in a new province, Thai Nguyen	
	province.	

2 Jan 2008	The H5N1 virus continues to cause outbreaks in poultry in Assam and West	
	Bengal provinces in India .	
4 Jan 2009	The Bangladesh Ministry of Fisheries	
	and Livestock reports new H5N1	
	outbreaks in poultry in Rajshahi district.	

Note: As of 1 April 2006, reports of influenza infection in animals refer to official OIE reports, as available on http://www.oie.int/wahid-prod/public.php?page=weekly_report_index&admin=0, unless otherwise noted.

References

- 1. Songserm, T et al. Avian Influenza H5N1 in Naturally Infected Domestic Cat. Emerging Infectious Diseases. www.cdc.gov/eid Vol. 12, No. 4, Apr 2006.
- 2. Hien TT et al. Avian influenza A (H5N1) in 10 patients in Vietnam. N Engl J Med 2004; 350:1179–88.
- 3. Li KS et al. Genesis of a highly pathogenic and potentially pandemic influenza virus in eastern Asia. Nature 2004; 430: 209–213.
- 4. Chen H et al. The evolution of H5N1 influenza viruses in ducks in southern China. Proc Natl Acad Sci USA 2004; 101: 10452–57.
- 5. Apisarnthanarak A et al. Atypical avian influenza (H5N1). Emerg Infect Dis 2004; 10: 1321–24.
- 6. Verbal report at WHO international consultation.
- 7. Kuiken T et al. Avian H5N1 influenza in cats. Published online by Science: www.sciencemag.org/cgi/content/abstract/1102287
- 8. Issued (prior to publication) on WHO website: Avian influenza situation in Asia: altered role of domestic ducks, 29 October 2004; available online at: http://www.who.int/csr/don/2004 10 29/en/index.html
- 9. Ungchusak K et al. Probable person-to-person transmission of avian influenza A (H5N1). N Engl J Med 2005; 352:4 333–40.
- 10. De Jong M et al. Fatal avian influenza A (H5N1) in a child presenting with diarrhea followed by coma. N Engl J Med 2005; 352:7 686–91.
- 11. Liu J et al. Highly pathogenic H5N1 influenza virus infection in migratory birds. ScienceExpress 2005. Published online at: www.sciencemag.org/cgi/contents/abstract/1115273
- 12. Chen H et al. H5N1 virus outbreak in migratory waterfowl. Nature 2005; 436: 191–92.
- 13. Writing Committee of the World Health Organization (WHO) Consultation on Human Influenza A/H5. N Engl J Med 2005; 353:13 54–65.
- 14. World Health Organization Global Influenza Program Surveillance Network. Emerg Infect Dis 2005: 11: 1515–21.
- 15. Taubenberger JK et al. Characterization of the 1918 influenza virus polymerase genes. Nature 2005; 437: 889–93.
- 16. Tumpey TM et al. Characterization of the reconstructed 1918 Spanish influenza pandemic virus. Science 2005; 310: 77–80.
- 17. Yingst S., et al., Qinghai-like H5N1 from Domestic Cats, Northern Iraq. Letter, Emerging Infectious Diseases 2006, 12(8):1295
- 18. Chen H et al. Establishment of multiple sublineages of H5N1 influenza virus in Asia: implications for pandemic control. Proc Natl Acad Sci USA 2006; 103: 2845–2850.
- 19. Shinya K et al. Influenza virus receptors in the human airway. Nature 2006; 440: 435–36.
- 20. van Riel D et al. H5N1 virus attachment to lower respiratory tract. ScienceExpress 23 Mar 2006. Published online at: http://www.sciencemag.org/cgi/content/abstract/1125548
- 21. World Health Organization. Epidemiology of WHO-confirmed human cases of avian influenza A(H5N1) infection. Weekly Epidemiological Record, 2006, 81:249–260
- 22. Smith et al. Emergence and predominance of an H5N1 influenza variant in China. Proc Natl Acad Sci U S A. 2006 Nov 7;103(45):16936-41. Epub 2006 Oct 30
- 23. World Health Organization. Update: WHO-confirmed human cases of avian influenza A(H5N1) infection, 25 November 2003–24 November 2006. Weekly Epidemiological Record, 2007, 82:41–48.
- 24. FAOAIDE News. Situation Update 45, 20 Feb 2007. http://www.fao.org/docs/eims/upload//224260/AIDENews mar07 no45.pdf.
- Sedyaningsih, E., Isfandari, S., Setiawaty, V., Rifati, L., Harun, S., Purba, W., Imari, S., Giriputra, S., Blair, P., Putnam, S., Uyeki, T., and Soendoro1, T. 2007. Epidemiology of Cases of H5N1 Virus Infection in Indonesia, July 2005

 –June 2006. Journal of Infectious Diseases 196:522 - 527.

- 26. FAO AIDE news. Situation Update 48, 15 October, 2007. Available at http://www.fao.org/docs/eims/upload//234638/AIDEnews_oct07_no48_.pdf
- 27. FAO AIDE news. Situation Update 49, 17 December, 2007. Available at http://www.fao.org/docs/eims/upload//237459/AIDEnews_dec07_no49.pdf
- 28. FAO AIDE news. Situation Update 50, 11 February, 2008. Available at http://www.fao.org/docs/eims/upload//239862/AIDEnews_feb08_no50.pdf
- 29. FAO AIDE news. Situation Update 51, 16 March, 2008. Available at http://www.fao.org/docs/eims/upload//239862/AIDEnews_feb08_no50.pdf
- Gilbert M, Xiao X, Pfeiffer DU, Epprecht M, Boles S, Czarnecki C, Chaitaweesub P, Kalpravidh W, Minh PQ, Otte MJ, Martin V, Slingenbergh J. 2008. Mapping H5N1 highly pathogenic avian influenza risk in Southeast Asia. *Proc Natl Acad Sci USA*. 105(12):4769-74. Epub 2008 Mar 24. Available online at: http://www.pnas.org/cgi/content/full/105/12/4769
- 31. FAO AIDE news. Situation Update 54, 16 Jun, 2008. Available at http://www.fao.org/avianflu/documents/AIDEnews_june08_no54.pdf
- 32. FAO AIDE news. Situation Update 55, 25 Jul, 2008. Available at http://www.fao.org/docs/eims/upload//246457/aj097e00.pdf
- 33. Bulletin on Avian Influenza in Cambodia, Issue 182, 19 Dec 2008. (prepared by UN system in Cambodia with the Royal Government of Cambodia and Development Partners).