

# Avian Influenza Report



*Avian Influenza Report* is a weekly report produced by the Respiratory Disease Office, Centre for Health Protection of the Department of Health. This report highlights global avian influenza activity in humans and birds.

## VOLUME 13, NUMBER 04

Reporting period: January 22, 2017 – January 28, 2017 (Week 04)

(Published on February 1, 2017)

## Summary

1. Since the previous issue of Avian Influenza Report (AIR), there were 10 new human cases of avian influenza A(H7N9) reported by Mainland China health authorities in Henan (2 cases), Hubei (2 cases), Hunan (2 cases), Liaoning (2 cases), Guizhou (1 case) and Shandong (1 case). Since March 2013 (as of February 1, 2017), there were a total of 1043 human cases of avian influenza A(H7N9) reported globally. Since November 2016 (as of February 1, 2017), 239 cases have been recorded in Mainland China.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of January 28, 2017), 16 human cases of avian influenza A(H5N6) were reported globally and all occurred in Mainland China. The latest case was reported on December 1, 2016.
3. There were no new human cases of avian influenza A(H5N1) reported by the World Health Organization (WHO) in 2017. From 2011 to 2015, 32 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date). In 2016, there have been 10 cases in Egypt.\*

\* Since November 21, 2012, WHO only publishes information on human cases with avian influenza A(H5N1) infection in "[Influenza at human - animal interface: Monthly Risk Assessment Summary](#)". Only cases of human infection with H5N1 involved in events that are unusual or associated with potential increased risks will be reported in Disease Outbreak News. The latest [report](#) was published in January, 2017.

## This week's highlights

(Sources: WHO, National Health and Family Planning Commission (NHFPC), Mainland health authorities, Ministry of Agriculture of the People's Republic of China, CHP and World Organisation for Animal Health (OIE))

**Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5) / avian influenza A(H7N9)**

	No. of H5 cases (No. of deaths)	No. of H7N9 cases (No. of deaths)	Details
<b>In this reporting period</b>	0(0)	0(0)	-

**Table 2. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H7N9)**

### **New cases in Mainland China since previous issue of AIR**

Province / Region / Municipality	City / District / Area	Age (years)	Sex	Clinical condition at time of reporting	Date of report
Hunan	Yueyang	37	F	Critical	24/01/2017
Henan	Luohe	59	M	-	25/01/2017
Henan	Yongcheng	36	M	-	25/01/2017
Shandong	Qingdao	59	M	-	26/01/2017
Hubei	-	65	M	Critical	26/01/2017
Hubei	-	78	F	Critical	26/01/2017
Liaoning	Shenyang	-	-	Stable	01/02/2017
Liaoning	Chaoyang	-	-	Stable	01/02/2017
Hunan	Hengyang	67	M	Critical	01/02/2017
Guizhou	Qianxinan Prefecture	-	-	-	01/02/2017

**Table 3. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since November 2016 respectively**

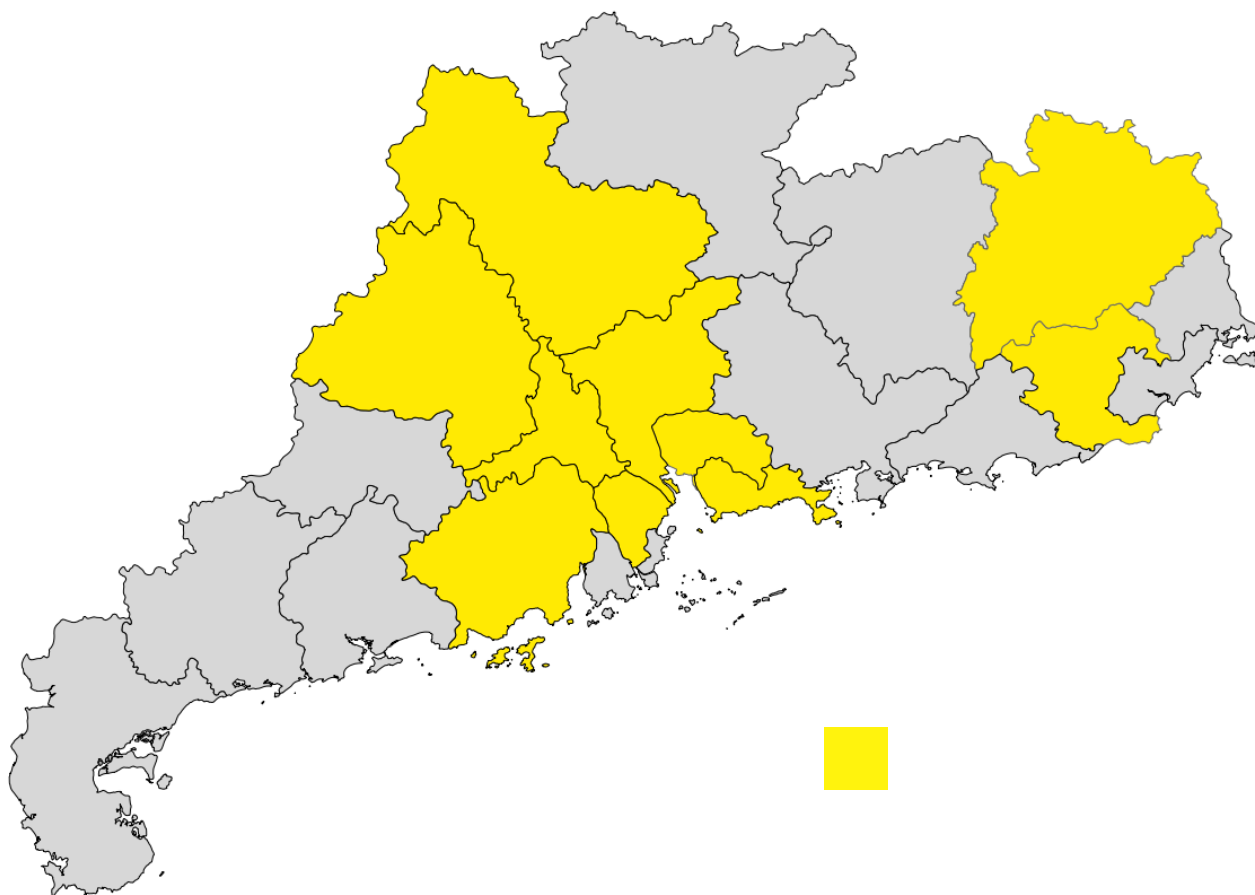
Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (1043 cases in total) (as of February 1 2017)	Cumulative no. of cases since November 2016 (245 cases in total) (as of February 1, 2017)
Mainland China	Zhejiang Province	264	45
	Guangdong Province	221	26 <sup>^</sup>
	Jiangsu Province	195	91
	Fujian Province	82	8
	Anhui Province	64	28
	Shanghai Municipality	55	4
	Hunan Province	46	12
	Jiangxi Province	25	11
	Shandong Province	12	3
	Xinjiang Uygur Autonomous Region	10	-
	Beijing Municipality	9	-
	Guizhou Province	6	4
	Henan Province	6	2
	Hubei Province	5	3
	Hebei Province	4	-
	Guangxi Province	3	-
	Liaoning Province	3	2
	Jilin Province	2	-
Tianjin Municipality	2	-	
Hong Kong		20 <sup>*</sup>	4
Taiwan		4 <sup>*</sup>	-
Canada		2 <sup>*</sup>	-
Macao		2 <sup>#</sup>	2
Malaysia		1 <sup>*</sup>	-

\* All cases imported from Mainland China

<sup>^</sup> Refer to Figure 1 for geographical distribution

<sup>#</sup> The latest case imported from Mainland China

**Figure 1. Geographical distribution of human cases of avian influenza A(H7N9) reported in Guangdong since November 2016 (information as of January 17, 2017)**



**Table 4. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H5N6)**

	<b>Place of occurrence</b>	<b>No. of cases (No. of deaths)</b>	<b>Province / Region / Municipality</b>	<b>City / District / Area</b>	<b>Age (years)</b>	<b>Sex</b>	<b>Condition at time of reporting</b>	<b>Date of report</b>
<b>New cases</b>	-	0(0)	-	-	-	-	-	-

**Table 5. Cumulative number of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since November 2016 respectively**

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (16 cases in total) (as of January 28, 2017)	Cumulative no. of cases since November 2016 (2 case in total) (as of January 28, 2017)
Mainland China	Guangdong	6	-
	Hunan	3	1
	Yunnan	2	-
	Anhui	1	-
	Hubei	1	-
	Jiangxi	1*	-
	Sichuan	1	-
	Guangxi Zhuang Autonomous Region	1	1

\* imported case from Guangdong

**Table 6. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1)**

	Place of occurrence	No. of cases (No. of deaths)	Details
New cases	-	0(0)	-

For the cumulative no. of human cases by place, please refer to [WHO](#) website.

**Table 7. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by onset date) <sup>§</sup>**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Overall
Cases	4	46	98	115	88	44	73	48	62	32	39	52	145	10	856
Deaths	4	32	43	79	59	33	32	24	34	20	25	22	42	3	452
Case fatality rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	54.8%	62.5%	64.1%	42.3%	29.0%	30.0%	52.8%

<sup>§</sup> Further breakdown by countries is available at [WHO](#) website

**Table 8. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by date of reporting)**

Country	Cumulative no. of cases (December 2003 to January 2017)	No. of recent cases <sup>^</sup> (October 2016 to January 2017)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	356	2
Indonesia	199	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	127	0
Overall	856	2

<sup>^</sup> Details of recent cases (October 2016 to January 2017) are listed in *Table 9*.

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (October 2016 to January 2017) (Sources: WHO)**

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
3/10/2016	Egypt	Fayoum	-	M	3	Fatal
3/10/2016	Egypt	Giza	-	F	3	Fatal

**Table 10. Outside Hong Kong: Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months**

	Place of occurrence	No. of cases (No. of deaths)	Details
<b>In this reporting period</b>	<b>United States of America</b>	1(0)	<b>Avian influenza A(H7N2):</b> <ul style="list-style-type: none"> <li>▫ <b>United States of America:</b> A human case reported on January 16, 2017</li> </ul>
	<b>Mainland China</b>	1(0)	<b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▫ <b>Guangdong Province:</b> A 7-month-old girl with onset on December 11, 2016</li> </ul>
<b>Previously reported cases (onset in the past 6 months)</b>	<b>Mainland China</b>	4(0)	<b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▫ <b>Guangdong Province:</b> A 3-year-old boy with onset on July 9, 2016; and a 29-year-old woman with onset on August 8, 2016.</li> <li>▫ <b>Yunnan Province:</b> A 10-month-old boy with onset on August 7, 2016.</li> <li>▫ <b>Jiangxi Province:</b> A 4-year-old girl with onset on August 2, 2016.</li> </ul>

**Table 11. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds since 2014**

	No. of reports of H5 in poultry / wild birds	No. of reports of H7N9 in poultry / wild birds	Details
<b>In this reporting period</b>	0	0	-
<b>Previously reported cases since 2014</b>	8*	3 <sup>#</sup>	-

- \* [Carcass of a peregrine falcon found in Yuen Long on April 9, 2015 \(H5N6\)](#)  
[Carcass of an oriental magpie robin found in Sai Kung on April 29, 2015 \(H5N6\)](#)  
[Carcass of an oriental magpie robin found in Kwai Chung on November 17, 2015 \(H5N6\)](#)  
[Carcass of a great egret found in Wong Tai Sin on December 31, 2015 \(H5N6\).](#)  
[Chicken carcass found in Tuen Mun on February 14, 2016 \(H5N6\)](#)  
[Chicken carcass found in Tai O on February 18, 2016 \(H5N6\)](#)  
[Samples of faecal droppings collected at Mai Po Nature Reserve on November 25, 2016 \(H5N6\)](#)  
[A sample of faecal droppings collected at Mai Po Nature Reserve on November 30, 2016 \(H5N6\)](#)
- # [Samples from a batch of live chickens imported from a registered poultry farm in Shunde District of Foshan City in Guangdong were tested positive for H7N9 virus on January 27, 2014.](#)  
[Samples from a consignment of live chickens from a registered farm in Huicheng District of Huizhou in Guangdong were tested positive for H7N9 virus on December 30, 2014.](#)  
[A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun was tested positive for H7N9 virus on June 5, 2016.](#)

**Table 12. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – number of reports for various subtypes of virus**

Subtype of virus	No. of reports
H5	2
H5N1	4
H5N2	2
H5N3	1
H5N5	4
H5N6	1
H5N8	32
H5N9	1

**Table 13. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – details of reports**

Places of occurrence	Details	OIE Report Date
Finland	Samples from birds in Lounais-Suomen and Lounais-Suomi were tested positive for highly pathogenic avian influenza A (H5N8).	January 20 and January 27, 2017
France	Samples from poultry and birds in Gers, Landes, Hautes-Pyrénées, Pyrénées-Atlantiques and Loire-Atlantique were tested positive for highly pathogenic avian influenza A (H5N8).	January 20 and January 27, 2017 (2 reports)
	Samples from poultry in Gers were tested positive for low pathogenic avian influenza A (H5N9).	January 27, 2017
	Samples from poultry in Landes were tested positive for low pathogenic avian influenza A (H5N1).	January 27, 2017
	Samples from poultry in Val-d'Oise were tested positive for low pathogenic avian influenza A (H5N2).	January 27, 2017
Slovakia	Samples from birds in Nitra, Zilina, Bratislava, Banská Bystrica and Trnava were tested positive for highly pathogenic avian influenza A (H5N8).	January 22, 2017
Ireland	Samples from birds in Galway and Tipperary were tested positive for highly pathogenic avian influenza A (H5N8).	January 23, 2017
Israel	Samples from poultry and birds in Hazafon, HaMerkaz, Haifa, Hadarom and Tel Aviv were tested positive for highly pathogenic avian influenza A (H5N8).	January 23 and January 24, 2017
South Africa	Samples from poultry in Western Cape Province were tested positive for low pathogenic avian influenza A (H5N2).	January 23, 2017
Germany	Samples from poultry and birds in Schleswig-Holstein were tested positive for highly pathogenic avian influenza A (H5N5).	January 24 (2 reports) and January 27, 2017
	Samples from poultry in Nordrhein-Westfalen, Sachsen-Anhalt and Rheinland-Pfalz were tested positive for low pathogenic avian influenza A (H5N3).	January 24, 2017
	Samples from poultry in Brandenburg and Niedersachsen were tested positive for highly pathogenic avian influenza A (H5N8).	January 25, 2017
Slovenia	Samples from birds in Ptuj, Maribor, Murska Sobota and Koper were tested positive for highly pathogenic avian influenza A (H5N8).	January 24 and January 27, 2017
Italy	Samples from poultry and birds in Friuli-Venezia Giulia and Veneto were tested positive for highly pathogenic avian influenza A (H5N8).	January 24 (2 reports) and January 26, 2017
Czech Republic	Samples from poultry and birds in Jihočeský, Olomoucký, Královéhradecký, Středočeský, Moravskoslezský, Zlínský and Liberecký were tested positive for highly pathogenic avian influenza A (H5N8).	January 24, January 25, January 28 and January 29, 2017
Croatia	Samples from birds in Sisačko-moslavačka and Grad Zagreb were tested positive for highly pathogenic avian influenza A (H5N8).	January 24 and January 27, 2017
United Kingdom	Samples from poultry in England were tested positive for highly pathogenic avian influenza A (H5N8).	January 25, January 27 and January 30, 2017



Places of occurrence	Details	OIE Report Date
Japan	Samples from poultry in Miyazaki were tested positive for highly pathogenic avian influenza A (H5N6).	January 25, 2017
Poland	Samples from poultry and birds in Dolnośląskie, Zachodniopomorskie, Malopolskie, Opolskie, Mazowieckie, Lubuskie, Wielkopolskie and Warmińsko-Mazurska were tested positive for highly pathogenic avian influenza A (H5N8).	January 25, January 26 and January 31, 2017
Russia	Samples from poultry and birds in Voronezhskaya Oblast and Chechenskaya Respublika were tested positive for highly pathogenic avian influenza A (H5).	January 26, 2017 (2 reports)
Greece	Samples from birds in Anatoliki Makedonia Kai Thraki were tested positive for highly pathogenic avian influenza A (H5N5).	January 27, 2017
	Samples from poultry in Peloponnese and Anatoliki Makedonia Kai Thraki were tested positive for highly pathogenic avian influenza A (H5N8).	January 27, 2017
India	Samples from poultry in Daman and Diu, Gujarat and Orissa were tested positive for highly pathogenic avian influenza A (H5N1).	January 27, 2017 (2 reports)
Romania	Samples from birds in Galați, Giurgiu, Constanța, Mures and Brașov were tested positive for highly pathogenic avian influenza A (H5N8).	January 27, 2017
Sweden	Samples from poultry in Stockholms län were tested positive for highly pathogenic avian influenza A (H5N8).	January 28, 2017
Rep. of Macedonia	Samples from poultry in Struga were tested positive for highly pathogenic avian influenza A (H5N8).	January 30, 2017
Nigeria	Samples from poultry in Plateau were tested positive for highly pathogenic avian influenza A (H5N8).	January 30, 2017
Cambodia	Samples from poultry in Svay Rieng were tested positive for highly pathogenic avian influenza A (H5N1).	January 31, 2017

For cumulative reports of avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds, please refer to the [OIE](#) website.

**Table 14. Countries / areas with documented avian influenza A (H7N9) or highly pathogenic avian influenza (including H5 and other subtypes) cases in the recent 6 months (including infections in humans/birds and relevant environmental samples) (as of February 1, 2017)**

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Algeria	-	-	-	-	H7	02/11/2016 (H7N1)
Austria	-	-	H5	11/11/2016 (H5N8)	H5	01/12/2016 (H5N8)
Bangladesh	-	-	H5	21/01/2017 (H5N1)	H5	21/01/2017 (H5N1)
Bhutan	-	-	H5	24/10/2016 (H5N1)	-	-
Bulgaria	-	-	H5	28/12/2016*	H5	22/12/2016*
Cambodia	-	-	H5	31/01/2017 (H5N1)	-	-
Cameroon	-	-	H5	14/09/2016 (H5N1)	-	-
Cote D'Ivoire	-	-	H5	03/10/2016 (H5N1)	-	-
Croatia	-	-	H5	16/01/2017 (H5N8)	H5	27/01/2017 (H5N8) 05/01/2017 (H5N5)
Czech Republic	-	-	H5	28/01/2017 (H5N8)	H5	29/01/2017 (H5N8)
Denmark	-	-	H5	21/11/2016 (H5N8)	H5	22/12/2016 (H5N8)
Egypt	-	-	Endemic	Endemic (H5N1) 12/01/2017 (H5N8)	H5	30/11/2016 (H5N8)
Finland	-	-	-	-	H5	27/01/2017 (H5N8)
France	-	-	H5	09/08/2016 (H5N2) 27/01/2017 (H5N8)	H5	27/01/2017 (H5N8)
Germany	-	-	H5	25/01/2017 (H5N8) 27/01/2017 (H5N5)	H5	20/01/2017 (H5N8) 24/01/2017 (H5N5)
Ghana	-	-	H5	23/11/2016 (H5N1)	-	-
Greece	-	-	H5	27/01/2017 (H5N8)	H5	23/12/2016 (H5N8) 27/01/2017 (H5N5)
Hong Kong	H7N9	11/01/2017 <sup>#</sup>	-	-	H5	08/12/2016 (H5N6)
Hungary	-	-	H5	29/12/2016 (H5N8)	H5	04/11/2016 (H5N8)
India	-	-	H5	12/01/2017 (H5N8) 27/01/2017 (H5N1)	H5	19/01/2017 (H5N8) 27/12/2016 (H5N1)
Indonesia	-	-	Endemic	Endemic	-	-
Iran	-	-	H5	07/01/2017 (H5N8)	H5	18/12/2016 (H5N8)
Ireland	-	-	-	-	H5	23/01/2017 (H5N8)
Israel	-	-	H5	23/01/2017 (H5N8)	H5	24/01/2017 (H5N8)
Italy	-	-	H5	26/01/2017 (H5N8)	H5	13/01/2017 (H5N5) 24/01/2017 (H5N8)
Japan	-	-	H5	25/01/2017 (H5N6)	H5	21/11/2016 (H5N6)
Kazakhstan	-	-	-	-	H5	20/01/2017*
Korea	-	-	H5	07/09/2016 (H5N8) 02/12/2016 (H5N6)	-	-
Kuwait	-	-	H5	22/01/2017 (H5N8)	-	-
Laos	-	-	H5	14/10/2016 (H5N1)	-	-
Macau	H7N9	12/01/2017 <sup>#</sup>	H7	13/12/2016 (H7N9)	-	-
Mainland China						
	Anhui	H7N9	13/01/2017	-	-	-
	Fujian	H7N9	09/01/2017	-	-	-
	Gansu	-	-	H5	08/10/2016 (H5N6)	-
	Guangdong	H7N9	10/01/2017	-	-	-
	Guangxi	H5N6	08/11/2016	-	-	-
		H5N6	09/11/2016	-	-	-
	Guizhou	H7N9	01/02/2017	H5	31/08/2016 (H5N6)	-
	Henan	H7N9	15/01/2017 <sup>^</sup>	-	-	-
	Hubei	H7N9	26/01/2017	H5	08/10/2016 (H5N6)	H5
		H5N6	18/11/2016	-	-	-
	Hunan	H7N9	01/02/2017	H5	12/01/2017 (H5N6)	-
	Jiangsu	H7N9	11/01/2017	-	-	-
	Jiangxi	H7N9	08/01/2017	-	-	-
	Liaoning	H7N9	01/02/2017	-	-	-
	Shandong	H7N9	26/01/2017	-	-	-
	Shanghai	H7N9	04/01/2017	-	-	-
	Shanxi	-	-	-	-	-
	Sichuan	-	-	H5	28/12/2016 (H5N6)	H5
						05/01/2017 (H5N8)
						-

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Xinjiang	-	-	H5	28/12/2016 (H5N6)	-	-
Zhejiang	H7N9	09/01/2017	-	-	-	-
Montenegro	-	-	-	-	H5	22/12/2016 (H5N5)
Netherlands	-	-	H7 and H5	28/12/2016 (H5N8)	H5	14/12/2016 (H5N5) 12/01/2017 (H5N8)
Niger	-	-	H5	19/1/2017 (H5N1)	-	-
Nigeria	-	-	H5	16/01/2017 (H5N1) 30/01/2017 (H5N8)	H5	17/12/2016 (H5N8)
Poland	-	-	H5	31/01/2017 (H5N8)	H5	25/01/2017 (H5N8)
Republic of Macedonia	-	-	H5	30/01/2017 (H5N8)	-	-
Romania	-	-	H5	09/01/2017 (H5N8)	H5	27/01/2017 (H5N8)
Russia	-	-	H5	26/01/2017*	H5	26/01/2017*
Serbia	-	-	H5	16/12/2016 (H5N8)	H5	18/01/2017 (H5N8)
Slovakia	-	-	H5	19/01/2017 (H5N8)	H5	22/01/2017 (H5N8)
Slovenia	-	-	-	-	H5	27/01/2017 (H5N8)
Spain	-	-	-	-	H5	11/01/2017 (H5N8)
Sweden	-	-	H5	28/01/2017 (H5N8)	H5	09/01/2017 (H5N8)
Switzerland	-	-	-	-	H5	11/01/2017 (H5N8)
Taiwan	-	-	H5	09/01/2017 (H5N2) 09/01/2017 (H5N8)	-	-
Togo	-	-	H5	25/08/2016 (H5N1)	-	-
Tunisia	-	-	-	-	H5	01/12/2016 (H5N8)
Uganda	-	-	H5	15/01/2017*	-	-
Ukraine	-	-	H5	12/01/2017 (H5N8)	H5	18/01/2017 (H5N8)
United Kingdom	-	-	H5	30/01/2017 (H5N8)	H5	17/01/2017 (H5N8)
United States of America	-	-	-	-	H5	09/01/2017 (H5N2)
Vietnam	-	-	H5	02/10/2016 (H5N1)	-	-

Sources: WHO, OIE, NHFPC and other official websites # imported case from Guangdong \* without further subtype information