

Avian Influenza Report

Avian Influenza Report is a weekly report produced by the Surveillance Division of the Communicable Disease Branch of the Centre for Health Protection. This report highlights global avian influenza activity in humans and birds.

VOLUME 18, NUMBER 49

Reporting period: Nov 27, 2022 – Dec 3, 2022 (Week 49)

(Published on December 6, 2022)

Summary

1. Since the previous issue of Avian Influenza Report (AIR), there were no new human cases of avian influenza A(H7N9). Since March 2013 (as of December 3, 2022), there were a total of 1568 human cases of avian influenza A(H7N9) reported globally (all were reported in the seven waves between 2013 and September 2019). The latest case was reported on April 5, 2019.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of December 3, 2022), there were 82 human cases of avian influenza A(H5N6) reported globally and 81 of them occurred in Mainland China. The latest case was reported on October 21, 2022.
3. Since the previous issue of AIR, there was one new human case of avian influenza A(H5N1) from Mainland China reported by the National Health Commission (NHC). From 2012 to 2022, 0 to 145 confirmed human cases of avian influenza A(H5N1) were reported to the World Health Organization (WHO) annually (according to onset date).* The latest case was reported on November 30, 2022.

* 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 December, 2022.

This week's highlights

(Sources: WHO, NHC, Mainland health authorities, Ministry of Agriculture of the People's Republic of China, Centre for Health Protection (CHP) and World Organisation for Animal Health (OIE))

Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR

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

Table 2. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR

Date of report	Country	Province / Region	District / City	Sex	Age	Condition at time of reporting	Subtype of virus
30/11/2022	Mainland China	Guangxi Zhuang Autonomous Region	Qinzhou	F	38	Deceased	H5N1

Table 3. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by onset date) §

Year	Cases	Deaths	Case fatality rate
2003	4	4	100%
2004	46	32	69.6%
2005	98	43	43.9%
2006	115	79	68.7%
2007	88	59	67.0%
2008	44	33	75.0%
2009	73	32	43.8%
2010	48	24	50.0%
2011	62	34	54.8%
2012	32	20	62.5%
2013	39	25	64.1%
2014	52	22	42.3%
2015	145	42	29.0%
2016	10	3	30.0%
2017	4	2	50.0%
2018	0	0	0%
2019	1	1	100%
2020	1	0	0%
2021	2	1	50.0%
2022	4	1	25.0%
Overall	868	457	52.6%

§ Further breakdown by countries is available at [WHO](https://www.who.int) website

Table 4. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by date of reporting)

Countries /Areas	Cumulative no. of cases (December 2003 to December 2022)	No. of recent cases (August to December 2022)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	54#	1
Djibouti	1	0
Egypt	359	0
India	1	0
Indonesia	200	0
Iraq	3	0
Lao People's Democratic Republic	3	0
Myanmar	1	0
Nepal	1	0
Nigeria	1	0
Pakistan	3	0
Spain	2	2
Thailand	25	0
Turkey	12	0
United Kingdom	1	0
United States of America	1	0
Vietnam	127	0
Overall	868	3

Including two cases from Mainland China detected in Hong Kong

Table 5. Cumulative numbers of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since January 2022 respectively

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (82 cases in total) (as of December 3, 2022)	Cumulative no. of cases since January 2022 (24 cases in total) (as of December 3, 2022)
Mainland China	Guangxi Zhuang Autonomous Region	20	9
	Guangdong Province	13	1
	Hunan Province	13	0
	Sichuan Province	12	5
	Jiangsu Province	5	3
	Chongqing Municipality	3	0
	Anhui Province	2	0
	Fujian Province	2	1
	Jiangxi Province	3*	2
	Yunnan Province	2	0
	Zhejiang Province	2	2

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (82 cases in total) (as of December 3, 2022)	Cumulative no. of cases since January 2022 (24 cases in total) (as of December 3, 2022)
	Beijing Municipality	1	0
	Guizhou Province	1	0
	Henan Province	1	1
	Hubei Province	1	0
Lao People's Democratic Republic		1	0

* one case was imported from Guangdong Province

Table 6. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2022 respectively

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (1568 cases in total) (as of December 3, 2022)	Cumulative no. of cases since October 2022 (0 case in total) (as of December 3, 2022)
Mainland China	Zhejiang Province	310	0
	Guangdong Province	259	0
	Jiangsu Province	252	0
	Fujian Province	108	0
	Anhui Province	99	0
	Hunan Province	95	0
	Shanghai Municipality	57	0
	Jiangxi Province	52	0
	Sichuan Province	38	0
	Beijing Municipality	35	0
	Guangxi Zhuang Autonomous Region	31	0
	Hubei Province	31	0
	Hebei Province	29	0
	Henan Province	28	0
	Shandong Province	28	0
	Guizhou Province	20	0
	Xinjiang Uygur Autonomous Region	14	0
	Chongqing Municipality	9	0
	Yunnan Province	8	0
	Shaanxi Province	7	0
	Gansu Province	6	0
	Liaoning Province	5	0
	Tianjin Municipality	5	0
	Jilin Province	3	0
	Shanxi Province	3	0
	Tibet Autonomous Region	3	0
	Inner Mongolia Autonomous Region	2	0
Hong Kong		21*	0
Taiwan		5*	0
Canada		2*	0
Macao		2 [#]	0

Confirmed H7N9 human cases have been reported in the following countries / areas	Cumulative no. of cases since 2013 (1568 cases in total) (as of December 3, 2022)	Cumulative no. of cases since October 2022 (0 case in total) (as of December 3, 2022)
Malaysia	1*	0

* All cases imported from Mainland China

The latest case imported from Mainland China

Table 7. Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months (as of December 5, 2022)

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	-	0(0)	-
Previously reported cases (onset/ reported in the past 6 months)	Mainland China	3(0)	Avian influenza A(H9N2): ◆ Guangdong Province: <ul style="list-style-type: none"> ▫ A 1-year-old boy with onset on August 1, 2022. ◆ Gansu Province: <ul style="list-style-type: none"> ▫ A 3-year-old boy with onset on September 20, 2022. Avian influenza A(H10N3): ◆ Zhejiang Province: <ul style="list-style-type: none"> ▫ A 33-year-old man with onset on June 11, 2022.

Table 8. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds / environmental samples since 2015

	No. of reports of H5 in poultry / wild birds / environmental samples	No. of reports of H7N9 in poultry / wild birds / environmental samples	Details
In this reporting period	1*	0	Update: A carcass of a black-faced spoonbill found in Mai Po Nature Reserve was confirmed to be positive for avian influenza A(H5N1) virus.
Previously reported cases since 2015 (before this reporting period)	21*	1#	-

* [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 \(H5N6\)](#)
[A dead red-whiskered bulbul collected at Kowloon City on April 7, 2017 \(H5N6\)](#)
[A dead oriental magpie robin found in Tseung Kwan O on December 21, 2017 \(H5N6\)](#)
[A dead black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai on December 21, 2017 \(H5N6\)](#)
[An environmental swab of a chopping board and skin swabs of a chilled duck sample taken from a fresh provision shop in Wan Chai on 2 January & 9 January, 2018 \(H5N6\)](#)
[An oropharyngeal swab from a batch of chilled chicken taken at a fresh provision shop in Mong Kok, reported on 23 January, 2018 \(H5N6\)](#)
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan on February 8, 2018 \(H5N6\)](#)
[A dead crested myna found at Kun Lung Wai, Fanling reported on April 9, 2018 \(H5N6\)](#)
[A swab sample taken from a bird cage housing a hill myna at a pet bird shop in Yuen Po Street Bird Garden in Mong Kok on 7 April, 2018 \(H5N6\)](#)
[Samples of faecal droppings collected at Mai Po Nature Reserve reported on January 14, 2021 \(H5N8\)](#)
[Carcass of a peregrine falcon found in Wu Kai Sha reported on February 1, 2021 \(H5N8\)](#)
[Carcass of a black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai reported on December 20, 2021 \(H5N1\)](#)
[Carcass of a Eurasian Curlew found in the Mai Po Nature Reserve reported on January 26, 2022 \(H5N1\)](#)
[Environmental sample collected from Mai Po Nature Reserve on November 9, 2022 \(H5N1\)](#)
[Carcass of a black-faced spoonbill found in Mai Po Nature Reserve reported on November 30, 2022 \(H5N1\)](#)
 # [A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun reported on June 5, 2016 \(H7N9\)](#)

Table 9. 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	1
H5N1	40

Table 10. 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
Nigeria	Samples from birds in Yobe were tested positive for highly pathogenic avian influenza A(H5N1).	November 24, 2022
Germany	Samples from birds in Schleswig-Holstein, Berlin, Brandenburg and Bremen were tested positive for highly pathogenic avian influenza A(H5N1).	November 25, 2022 November 30, 2022
	Samples from poultry in Niedersachsen and Nordrhein-Westfalen were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022 December 2, 2022
Colombia	Samples from birds in Córdoba, Magdalena, Bolívar,	November 29, 2022

Places of Occurrence	Details	OIE Report Date
	Sucre and Chocó were tested positive for highly pathogenic avian influenza A(H5N1).	
Hungary	Samples from poultry and birds in Bács-Kiskun were tested positive for highly pathogenic avian influenza A(H5N1).	November 29, 2022
	Samples from birds in Somogy, Tolna, Csongrád, Komárom-Esztergom, Fejér, Győr-Moson-Sopron, Szabolcs-Szatmár-Bereg, Hajdú-Bihar, Pest, Borsod-Abaúj-Zemplén, Budapest, Vas and Baranya were tested positive for highly pathogenic avian influenza A(H5N1).	November 29, 2022
	Samples from poultry in Békés were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022
Latvia	Samples from birds in Rīgas were tested positive for highly pathogenic avian influenza A(H5N1).	November 29, 2022
Italy	Samples from poultry and birds in Emilia-Romagna, Veneto and Lombardia were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022
	Samples from poultry in Friuli-Venezia Giulia were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022
	Samples from birds in Italian Exclusive Economic Zone and Sardegna were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022
Japan	Samples from poultry and birds in Kagoshima, Niigata and Miyagi were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022 December 1, 2022
	Samples from birds in Fukui and Kanagawa were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022
	Samples from poultry in Chiba, Kagawa, Aomori, Hokkaido, Okayama, Miyazaki, Hyōgo, Wakayama and Ibaraki were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022
Russia	Samples from birds in Khabarovsk were tested positive for highly pathogenic avian influenza A(H5N1).	November 30, 2022

Places of Occurrence	Details	OIE Report Date
Belgium	Samples from birds in Vlaanderen, Wallonie and Belgian Exclusive Economic Zone were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022
Canada	Samples from poultry and birds in British Columbia, Alberta, Ontario, Manitoba and Québec were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022 December 2, 2022
	Samples from birds in Nova Scotia and Prince Edward Island were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022
	Samples from poultry in Saskatchewan were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
Spain	Samples from birds in País Vasco, Región de Murcia, Castilla y León, Cantabria, Principado de Asturias, Andalucía, Galicia, Extremadura and Comunidad de Madrid were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022
Sweden	Samples from birds in Trelleborg, Tomelilla, Lomma and Varberg were tested positive for highly pathogenic avian influenza A(H5N1).	December 1, 2022
France	Samples from poultry and birds in Occitanie, Pays de la Loire, Nouvelle-Aquitaine, Grand Est, Centre-Val de Loire, Île-de-France, Bretagne, Normandie, Auvergne-Rhône-Alpes and Hauts-de-France were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
	Samples from birds in Provence-Alpes-Côte d'Azur were tested positive for highly pathogenic avian influenza A(H5N1)	December 2, 2022
Moldova	Samples from poultry in Telenești were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
Switzerland	Samples from birds in Ticino and Zürich were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
United Kingdom	Samples from poultry and birds in England, Wales and Scotland were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022 December 3, 2022
	Samples from poultry in Northern Ireland were tested positive for highly pathogenic avian influenza A(H5N1)	December 3, 2022

Places of Occurrence	Details	OIE Report Date
United States of America	Samples from poultry and birds in Florida, South Dakota, Oregon, Tennessee, California, Washington, New York, Utah, Mississippi, Minnesota, Pennsylvania, Wisconsin, North Dakota, Iowa and Colorado were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
	Samples from poultry in Missouri, Nebraska, Ohio, Kentucky, Michigan, Idaho, Indiana and Kansas were tested positive for highly pathogenic avian influenza A(H5N1)	December 2, 2022
	Samples from birds in Alaska, North Carolina, Arizona, Wyoming, Maine, Kentucky, New Jersey, Texas, Idaho, Louisiana, Arkansas, South Carolina, Massachusetts, Virginia and Montana were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
Venezuela	Samples from birds in Venezuelan Exclusive Economic Zone were tested positive for highly pathogenic avian influenza A(H5N1).	December 2, 2022
Czech Republic	Samples from poultry in Jihočeský were tested positive for highly pathogenic avian influenza A(H5N1).	December 3, 2022
Ireland	Samples from poultry in Monaghan were tested positive for highly pathogenic avian influenza A(H5N1).	December 3, 2022
	Samples from birds in Laoighis and Offaly were tested positive for highly pathogenic avian influenza A(H5N1).	December 3, 2022
Peru	Samples from poultry in Lambayeque were tested positive for highly pathogenic avian influenza A(H5).	December 3, 2022
Poland	Samples from birds in Kujawsko-Pomorskie, Pomorskie, Polish Exclusive Economic Zone, Warmińsko-Mazurskie, Śląskie, Mazowieckie, Dolnośląskie, Świętokrzyskie, Opolskie, Zachodniopomorskie, Łódzkie and Wielkopolskie were tested positive for highly pathogenic avian influenza A(H5N1).	December 5, 2022
South Africa	Samples from poultry and birds in Free State, KwaZulu-Natal, Gauteng, Western Cape and Eastern Cape were tested positive for highly pathogenic avian influenza A(H5N1).	December 5, 2022
	Samples from birds in Mpumalanga, North West and Limpopo were tested positive for highly pathogenic avian	December 5, 2022

Places of Occurrence	Details	OIE Report Date
	influenza A(H5N1).	

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 11. Countries / areas with documented human infection with avian influenza A(H7N9) or highly pathogenic avian influenza (including infections in humans/birds and relevant environmental samples) in the past 6 months (as of December 5, 2022)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Albania	-	-	H5	16/08/2022 (H5N8)	-	-
Algeria	-	-	H5	07/10/2022 (H5N1)	-	-
Austria	-	-	-	-	H5	24/11/2022 (H5N1)
Belgium	-	-	H5	14/11/2022 (H5N1)	H5	20/07/2022* 01/12/2022 (H5N1)
Bulgaria	-	-	H5	13/06/2022*	-	-
Canada	-	-	H5	02/12/2022 (H5N1)	H5	01/12/2022 (H5N1)
Colombia	-	-	-	-	H5	29/11/2022 (H5N1)
Croatia	-	-	H5	10/06/2022 (H5N1)	-	-
Czech Republic	-	-	H5	03/12/2022 (H5N1)	-	-
Denmark	-	-	H5	21/11/2022 (H5N1)	H5	25/11/2022 (H5N1)
Ecuador	-	-	H5	28/11/2022 (H5)	-	-
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Faroe Islands	-	-	-	-	H5	29/11/2022 (H5N1)
Finland	-	-	-	-	H5	12/10/2022 (H5N5) 09/11/2022 (H5N1)
France	-	-	H5	02/12/2022 (H5N1)	H5	02/12/2022 (H5N1)
Germany	-	-	H5	02/12/2022 (H5N1)	H5	30/11/2022 (H5N1)
Guinea	-	-	H5	03/06/2022 (H5N1)	-	-
Hong Kong Special Administrative Region	-	-	-	-	H5	30/11/2022 (H5N1)
Hungary	-	-	H5	30/11/2022 (H5N1)	H5	29/11/2022 (H5N1)
Iceland	-	-	H5	23/11/2022 (H5N1)	H5	25/11/2022 (H5N1)
India	-	-	H5	07/11/2022 (H5N1)	-	-
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iraq	-	-	H5	23/06/2022 (H5N8)	-	-
Ireland	-	-	H5	03/12/2022 (H5N1)	H5	03/12/2022 (H5N1)
Israel	-	-	H5	27/11/2022 (H5N1)	H5	29/06/2022 (H5N8)
Italy	-	-	H5	30/11/2022 (H5N1)	H5	30/11/2022 (H5N1)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Japan	-	-	H5	01/12/2022 (H5N1)	H5	21/06/2022* 08/11/2022 (H5N2) 30/11/2022 (H5N1)
Kazakhstan	-	-	-	-	H5	04/08/2022*
Korea	-	-	H5	28/10/2022 (H5N1)	-	-
Latvia	-	-	-	-	H5	29/11/2022 (H5N1)
Lithuania	-	-	-	-	H5	28/06/2022 (H5N1)
Mainland China						
Guangxi	H5	30/07/2022 (H5N6) 22/09/2022 (H5N1)	-	-	-	-
Jiangxi	H5	02/06/2022 (H5N6)	-	-	-	-
Qinghai	-	-	-	-	H5	29/07/2022 (H5N1)
Mexico	-	-	-	-	H5	19/11/2022 (H5N1)
Moldova	-	-	H5	02/12/2022 (H5N1)	-	-
Nepal	-	-	H5	29/06/2022 (H5N1)	-	-
Netherlands	-	-	H5	28/11/2022 (H5N1)	H5	17/10/2022 (H5N1)
Nigeria	-	-	H5	26/10/2022 (H5N1)	H5	24/11/2022 (H5N1)
North Macedonia	-	-	-	-	H5	09/11/2022 (H5N1)
Norway	-	-	H5	15/11/2022 (H5N1)	H5	28/09/2022 (H5N5) 29/11/2022 (H5N1)
Peru	-	-	H5	03/12/2022*	H5	18/11/2022*
Philippines	-	-	H5	15/09/2022 (H5N1)	-	-
Poland	-	-	H5	21/09/2022 (H5N1)	H5	05/12/2022 (H5N1)
Portugal	-	-	H5	01/10/2022 (H5N1)	H5	23/11/2022 (H5N1)
Reunion	-	-	H5	13/10/2022 (H5N1)	H5	12/10/2022 (H5N1)
Romania	-	-	-	-	H5	25/11/2022 (H5N1)
Russia	-	-	H5	14/11/2022 (H5N1)	H5	28/06/2022* 30/11/2022 (H5N1)
Serbia	-	-	H5	04/11/2022 (H5N1)	H5	14/11/2022 (H5N1)
Slovakia	-	-	H5	01/06/2022 (H5N1)	-	-
Slovenia	-	-	-	-	H5	25/11/2022 (H5N1)
South Africa	-	-	H5	14/11/2022 (H5N2)	H5	05/12/2022 (H5N1)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
				05/12/2022 (H5N1)		
Spain	H5	23/09/2022 (H5N1) 13/10/2022 (H5N1)	H5	23/09/2022 (H5N1)	H5	01/12/2022 (H5N1)
Sweden	-	-	-	-	H5	01/12/2022 (H5N1)
Switzerland	-	-	-	-	H5	02/12/2022 (H5N1)
Taiwan	-	-	H5	14/11/2022 (H5N2)	H5	07/06/2022 (H5N2) 04/07/2021 (H5N1)
United Kingdom	-	-	H5	03/12/2022 (H5N1)	H5	28/10/2022 (H5N8) 03/12/2022 (H5N1)
United States of America	-	-	H5	26/10/2022 (H5N4) 02/12/2022 (H5N1)	H5	02/12/2022 (H5N1)
Venezuela	-	-	-	-	H5	02/12/2022 (H5N1)
Vietnam	H5	05/10/2022*	H5	26/10/2022 (H5N1)	-	-

Sources: WHO, OIE, NHC and other official websites

* without further subtype information