衞生防護中心 Centre for Health Protection
保障市民健康 Protecting Hong Kong's health

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.*

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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 April 16, 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 April 16, 2022), there were 77 human cases of avian influenza A(H5N6) reported globally and 76 of them occurred in Mainland China. The latest case was reported on April 9, 2022.

3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2012 to 2021, 0 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date).* The latest case was reported on January 21, 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 March, 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
-	-	-	-	-	-	-	-

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%
2022	0	0	0%
Overall	864	456	52.8%

[§] Further breakdown by countries is available at WHO 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 April 2022)	No. of recent cases (December 2021 to April 2022)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53[#]	0
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
Thailand	25	0
Turkey	12	0
United Kingdom	1	1
Vietnam	127	0
Overall	864	1

[#] 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 (77 cases in total) (as of April 16, 2022)	Cumulative no. of cases since January 2022 (19 cases in total) (as of April 16, 2022)
Mainland China	Guangxi Zhuang Autonomous Region	17	6
	Guangdong Province	13	1
	Hunan Province	13	0
	Sichuan Province	11	4
	Jiangsu Province	5	3
	Chongqing Municipality	3	0
	Anhui Province	2	0
	Fujian Province	2	1
	Jiangxi Province	2*	1
	Yunnan Province	2	0
	Zhejiang Province	2	2
	Beijing Municipality	1	0
	Guizhou Province	1	0
	Henan Province	1	1

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (77 cases in total) (as of April 16, 2022)	Cumulative no. of cases since January 2022 (19 cases in total) (as of April 16, 2022)
	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 2021 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 April 16, 2022)	Cumulative no. of cases since October 2021 (0 case in total) (as of April 16, 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
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 April 18, 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**	15(1)	**Avian influenza A(H9N2):** ▪ **Guizhou Province:** ▫ A 39-year-old male with onset on October 29, 2021. ▪ **Guangdong Province:** ▫ A 7-year-old boy with onset on November 28, 2021. ▫ A 7-year-old girl with onset on December 6, 2021. ▪ **Sichuan Province:** ▫ A 1-year-old girl with onset on October 20, 2021. ▪ **Shanxi Province:** ▫ A 6-year-old girl with onset on November 3, 2021. ▪ **Anhui Province:** ▫ A 5-year-old boy with onset on November 13, 2021. ▫ A 5-year-old boy with onset on January 3, 2022. ▫ A 2-year-old boy with onset on January 18, 2022. ▫ A 2-year-old girl with onset on January 29, 2022. ▪ **Jiangsu Province:** ▫ A 7-year-old girl with onset on November 27, 2021. ▪ **Hubei Province:** ▫ A 3-year-old girl with onset on December 7, 2021. ▫ A 3-year-old boy with onset on December 13, 2021. ▫ A 5-year-old girl with onset on December 28, 2021. ▪ **Guangxi Zhuang Autonomous Region:**

	Place of occurrence	No. of cases (No. of deaths)	Details
			▫ A 14-year-old girl with onset on December 9, 2021. ▪ **Jiangxi Province:** ▫ A 51-year-old woman with onset on January 11, 2022.
	Cambodia	1(0)	**Avian influenza A(H9N2):** ▪ A 13-month-old girl with onset on February 27, 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	0	0	-
Previously reported cases since 2015 (before this reporting period)	20*	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)

\# 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
H5N1	26
H5N8	1

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
France	Samples from birds in Grand Est, Pays de la Loire, Hauts-de-France, Normandie, Auvergne-Rhône-Alpes, Occitanie, Nouvelle-Aquitaine, Bretagne, Île-de-France, Centre-Val de Loire and Bourgogne-Franche-Comté were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
Hungary	Samples from poultry and birds in Bács-Kiskun were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022 April 14, 2022
	Samples from birds in Szabolcs-Szatmár-Bereg, Gyor-Moson-Sopron, Komárom-Esztergom, Tolna, Baranya, Hajdú-Bihar, Csongrád, Fejér, Borsod-Abaúj-Zemplén, Pest, Budapest and Vas were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
Italy	Samples from birds in Veneto, Emilia-Romagna, Lombardia, Friuli-Venezia Giulia, Lazio, Piemonte, Campania and Apulia were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022 April 15, 2022
Japan	Samples from poultry in Miyagi, Aomori, Hiroshima, Kagoshima, Kumamoto, Ehime, Hygo, Saitama, Chiba and Iwate were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
Latvia	Samples from birds in Rgas were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
Slovakia	Samples from birds in Trnavský, Banskobystrický, Bratislavský and Nitriansky were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022

South Africa	Samples from birds in Western Cape, Gauteng, KwaZulu-Natal, North West, Free State, Eastern Cape and Limpopo were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
United States of America	Samples from birds in Kentucky, Colorado, Pennsylvania, Illinois, Minnesota, Wisconsin, Maine, Delaware, Maryland, New Hampshire, Virginia, Wyoming, Iowa, Ohio, Nebraska, New York, South Dakota, Florida, Kansas, Massachusetts, North Carolina, Tennessee, Michigan, Connecticut, New Jersey, Alabama, South Carolina, Missouri and Indiana were tested positive for highly pathogenic avian influenza A(H5N1).	April 12, 2022
Belgium	Samples from birds in Vlaanderen, Wallonie and Belgian Exclusive Economic Zone were tested positive for highly pathogenic avian influenza A(H5N1).	April 13, 2022
Finland	Samples from birds in Etelä-Suomen aluehallintovirasto and Lounais-Suomen aluehallintovirasto were tested positive for highly pathogenic avian influenza A(H5N1).	April 13, 2022
Germany	Samples from birds in Hessen, Schleswig-Holstein, German, Baden-Württemberg, Bayern, Hamburg, Nordrhein-Westfalen and Sachsen were tested positive for highly pathogenic avian influenza A(H5N1).	April 13, 2022 April 15, 2022
Lithuania	Samples from birds in Kauno and Klaipedos were tested positive for highly pathogenic avian influenza A(H5N1).	April 13, 2022
Canada	Samples from poultry and birds in Ontario and Nova Scotia were tested positive for highly pathogenic avian influenza A(H5N1).	April 14, 2022
	Samples from birds in Saskatchewan, Newfoundland and Labrador, New Brunswick, British Columbia, Québec and Prince Edward Island were tested positive for highly pathogenic avian influenza A(H5N1).	April 14, 2022
	Samples from poultry in Alberta were tested positive for highly pathogenic avian influenza A(H5N1).	April 14, 2022
Vietnam	Samples from poultry in Bình Phc, Tây Ninh, Qung Nam, Qung Tr, Ninh Bình, Qung Bình, Ngh An and Hà Ni were tested positive for highly pathogenic avian influenza A(H5N1).	April 14, 2022
United Kingdom	Samples from poultry in England, Wales, Scotland and Northern Ireland were tested positive for highly pathogenic avian influenza A(H5N1).	April 15, 2022

	Samples from birds in Isle of Man and Jersey were tested positive for highly pathogenic avian influenza A(H5N1).	April 15, 2022
	Samples from birds in England were tested positive for highly pathogenic avian influenza A(H5N8).	April 15, 2022

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 April 18, 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	28/03/2021 (H5N8)	H5	28/03/2021 (H5N8)
Austria	-	-	H5	26/11/2021 (H5N1)	H5	06/04/2022 (H5N1)
Belgium	-	-	H5	30/03/2022 (H5N1)	H5	30/03/2022* 13/04/2022 (H5N1)
Benin	-	-	H5	27/12/2021 (H5N1)	-	-
Bosnia and Herzegovina	-	-	-	-	H5	12/11/2021 (H5N1)
Burkina Faso	-	-	H5	24/01/2022 (H5N1)	-	-
Cameroon	-	-	H5	23/02/2022 (H5N1)	-	-
Canada	-	-	H5	14/04/2022 (H5N1)	H5	14/04/2022 (H5N1)
Cote D'Ivoire	-	-	H5	28/01/2022 (H5N1)	-	-
Croatia	-	-	H5	14/01/2022 (H5N1)	H5	23/02/2022 (H5N1)
Czech Republic	-	-	H5	26/10/2021* 08/02/2022 (H5N1)	H5	10/03/2022 (H5N1)
Denmark	-	-	H5	03/11/2021* 13/01/2022 (H5N8) 08/02/2022 (H5N1)	H5	21/01/2022 (H5N8) 01/04/2022 (H5N1)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Estonia	-	-	H5	02/12/2021 (H5N8)	H5	13/10/2021 (H5N8) 05/04/2022 (H5N1)
Faroe Islands	-	-	-	-	H5	22/02/2022 (H5N1)
Finland	-	-	-	-	H5	14/12/2021 (H5N8) 13/04/2022 (H5N1)
France	-	-	H5	04/04/2022 (H5N1)	H5	29/10/2021 (H5N8) 12/04/2022 (H5N1)
					H7	29/10/2021 (H7N7)
Germany	-	-	H5	08/04/2022 (H5N1)	H5	25/01/2022 (H5N3) 07/02/2022 (H5N2) 15/04/2022 (H5N1)
Greece	-	-	-	-	H5	11/04/2022 (H5N1)
Hong Kong Special	-	-	-	-	H5	26/01/2022 (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)
Administrative Region						
Hungary	-	-	H5	14/04/2022 (H5N1)	H5	12/04/2022 (H5N1)
Iceland	-	-	-	-	H5	11/04/2022 (H5N1)
India	-	-	H5	01/03/2022 (H5N1)	H5	07/12/2021 (H5N1) 07/12/2021 (H5N8)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	H5	10/01/2022 (H5N5)	-	-
Ireland	-	-	H5	14/01/2022 (H5N1)	H5	05/04/2022 (H5N1)
Israel	-	-	H5	07/02/2022 (H5N1)	H5	07/03/2022 (H5N1)
Italy	-	-	H5	08/04/2022 (H5N1)	H5	15/04/2022 (H5N1)
Japan	-	-	H5	13/12/2021 (H5N8) 12/04/2022 (H5N1)	H5	24/11/2021 (H5N8) 07/04/2022* 11/04/2022 (H5N1)
Kazakhstan	-	-	H5	15/11/2021*	-	-
Korea	-	-	H5	11/04/2022 (H5N1)	H5	11/02/2022 (H5N8) 05/04/2022 (H5N1)
Lao People's Democratic Republic	-	-	H5	14/10/2021*	-	-
Latvia	-	-	-	-	H5	28/12/2021 (H5N8) 12/04/2022 (H5N1)
Lithuania	-	-	-	-	H5	13/04/2022 (H5N6)
Luxembourg	-	-	-	-	H5	10/02/2022 (H5N8) 22/02/2022 (H5N1)
Mainland China						
Fujian	H5	28/01/2022 (H5N6)	-	-	-	-
Guangdong	H5	20/10/2021 (H5N6) 03/12/2021 (H5N6) 31/12/2021 (H5N6)	-	-	-	-
Guangxi	H5	15/11/2021 (H5N6) 17/11/2021 (H5N6) 18/11/2021 (H5N6) 19/12/2021 (H5N6)	-	-	-	-

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)
		23/12/2021 (H5N6) 12/01/2022 (H5N6) 31/01/2022 (H5N6)				
Hebei	-	-	-	-	H5	30/11/2021 (H5N1)
Henan	H5	18/03/2022 (H5N6)	-	-	-	-
Hunan	H5	03/10/2021 (H5N6) 22/11/2021 (H5N6) 24/11/2021 (H5N6) 04/12/2021 (H5N6)	-	-	-	-
Jiangsu	H5	15/01/2022 (H5N6) 20/01/2022 (H5N6) 24/03/2022 (H5N6)	-	-	-	-
Jiangxi	H5	20/02/2022 (H5N6)	-	-	-	-
Sichuan	H5	17/11/2021 (H5N6) 01/12/2021 (H5N6) 08/12/2021 (H5N6) 03/01/2022 (H5N6) 23/01/2022 (H5N6)	-	-	-	-
Zhejiang	H5	15/12/2021 (H5N6) 06/01/2022 (H5N6)	-	-	-	-
Mali	-	-	-	-	H5	06/04/2022 (H5N1)
Moldova	-	-	H5	23/02/2022 (H5N1)	-	-
Montenegro	-	-	-	-	H5	11/04/2022 (H5N1)
Namibia	-	-	-	-	H5	11/02/2022 (H5N1)
Nepal	-	-	H5	11/04/2022 (H5N1)	H5	28/03/2022 (H5N1)
Netherlands	-	-	H5	15/03/2022 (H5N1)	H5	03/12/2021 (H5N8) 20/12/2021* 11/04/2022 (H5N1)
Niger	-	-	H5	31/01/2022 (H5N1)	-	-
Nigeria	-	-	H5	14/03/2022 (H5N1)	-	-
North Macedonia	-	-	-	-	H5	25/02/2022 (H5N1)
Norway	-	-	H5	04/04/2022 (H5N1)	H5	06/04/2022 (H5N1) 08/04/2022 (H5N5)

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)
Pakistan	-	-	H5	06/01/2022*	-	-
Philippines	-	-	H5	24/03/2022 (H5N8) 07/04/2022 (H5N1)	-	-
Poland	-	-	H5	06/04/2022 (H5N1) 06/04/2022 (H5N2)	H5	11/04/2022 (H5N1)
Portugal	-	-	H5	23/02/2022 (H5N1)	H5	16/03/2022 (H5N1)
Romania	-	-	H5	29/03/2022 (H5N1)	H5	21/03/2022 (H5N1)
Russia	-	-	H5	07/12/2021* 14/02/2022 (H5N1)	H5	27/01/2022 (H5N1) 30/03/2022*
Senegal	-	-	H5	10/02/2022 (H5N1)	H5	17/02/2022 (H5N1)
Serbia	-	-	-	-	H5	15/10/2021 (H5N8) 29/10/2021 (H5N2) 26/11/2021 (H5N1)
Slovakia	-	-	H5	09/02/2022 (H5N1)	H5	12/04/2022 (H5N1)
Slovenia	-	-	H5	31/01/2022 (H5N1)	H5	16/02/2022 (H5N1)
South Africa	-	-	H5	11/04/2022 (H5N1)	H5	12/04/2022 (H5N1)
Spain	-	-	H5	25/03/2022 (H5N1)	H5	11/04/2022 (H5N1)
Sweden	-	-	H5	31/01/2022 (H5N1)	H5	25/03/2022 (H5N8) 04/04/2022 (H5N1)
Switzerland	-	-	H5	25/11/2021 (H5N1)	H5	18/03/2022 (H5N1)
Taiwan	-	-	H5	13/01/2022 (H5N5) 28/03/2022 (H5N2)	H5	27/12/2021 (H5N1)
Togo	-	-	H5	18/01/2022 (H5N1)	-	-
Ukraine	-	-	-	-	H5	14/12/2021*
United Kingdom	H5	24/12/2021 (H5N1)	H5	15/04/2022 (H5N1)	H5	01/10/2021 (H5N3) 01/10/2021 (H5N5) 15/04/2022 (H5N1) 15/04/2022 (H5N8)
United States of America	-	-	H5	11/04/2022 (H5N1)	H5	17/01/2022* 12/04/2022 (H5N1)
Vietnam	-	-	H5	03/01/2022 (H5N8) 14/04/2022 (H5N1)	-	-

Sources: WHO, OIE, NHC and other official websites

* without further subtype information