

# 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 July 30, 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 July 30, 2022), there were 80 human cases of avian influenza A(H5N6) reported globally and 79 of them occurred in Mainland China. The latest case was reported on June 27, 2022.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2012 to 2022, 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 May 6, 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 July, 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<br>(No. of deaths) | No. of H7N9 cases<br>(No. of deaths) | Details |
|---------------------------------|------------------------------------|--------------------------------------|---------|
| <b>In this reporting period</b> | 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) <sup>§</sup>**

| 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    | 1     | 0      | 0%                 |
| Overall | 865   | 456    | 52.7%              |

<sup>§</sup> 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)**

| <b>Countries /Areas</b>                | <b>Cumulative no. of cases<br/>(December 2003 to July 2022)</b> | <b>No. of recent cases<br/>(March to July 2022)</b> |
|----------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|
| Azerbaijan                             | 8                                                               | 0                                                   |
| Bangladesh                             | 8                                                               | 0                                                   |
| Cambodia                               | 56                                                              | 0                                                   |
| Canada                                 | 1                                                               | 0                                                   |
| Mainland China                         | 53 <sup>#</sup>                                                 | 0                                                   |
| Djibouti                               | 1                                                               | 0                                                   |
| Egypt                                  | 359                                                             | 0                                                   |
| India                                  | 1                                                               | 0                                                   |
| Indonesia                              | 200                                                             | 0                                                   |
| Iraq                                   | 3                                                               | 0                                                   |
| Lao People's<br>Democratic<br>Republic | 3                                                               | 0                                                   |
| Myanmar                                | 1                                                               | 0                                                   |
| Nepal                                  | 1                                                               | 0                                                   |
| Nigeria                                | 1                                                               | 0                                                   |
| Pakistan                               | 3                                                               | 0                                                   |
| Thailand                               | 25                                                              | 0                                                   |
| Turkey                                 | 12                                                              | 0                                                   |
| United Kingdom                         | 1                                                               | 0                                                   |
| United States of<br>America            | 1                                                               | 1                                                   |
| Vietnam                                | 127                                                             | 0                                                   |
| Overall                                | 865                                                             | 1                                                   |

<sup>#</sup> 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**

| <b>Confirmed H5N6 human cases have<br/>been reported in the following<br/>countries / areas</b> |                                     | <b>Cumulative no. of cases<br/>since 2014<br/>(80 cases in total)<br/>(as of July 30, 2022)</b> | <b>Cumulative no. of cases<br/>since January 2022<br/>(22 cases in total)<br/>(as of July 30, 2022)</b> |
|-------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Mainland<br>China                                                                               | Guangxi Zhuang<br>Autonomous Region | 18                                                                                              | 7                                                                                                       |
|                                                                                                 | 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 <sup>*</sup>                                                                                  | 2                                                                                                       |
|                                                                                                 | Yunnan Province                     | 2                                                                                               | 0                                                                                                       |
|                                                                                                 | Zhejiang Province                   | 2                                                                                               | 2                                                                                                       |
|                                                                                                 | Beijing Municipality                | 1                                                                                               | 0                                                                                                       |

| Confirmed H5N6 human cases have been reported in the following countries / areas |                  | Cumulative no. of cases since 2014<br>(80 cases in total)<br>(as of July 30, 2022) | Cumulative no. of cases since January 2022<br>(22 cases in total)<br>(as of July 30, 2022) |
|----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                  | 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 2021 respectively**

| Confirmed H7N9 human cases have been reported in the following countries / areas |                                  | Cumulative no. of cases since 2013<br>(1568 cases in total)<br>(as of July 30, 2022) | Cumulative no. of cases since October 2021<br>(0 case in total)<br>(as of July 30, 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 <sup>#</sup>                                                                       | 0                                                                                        |
| Malaysia                                                                         |                                  | 1*                                                                                   | 0                                                                                        |

\* All cases imported from Mainland China

<sup>#</sup> 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 August 1, 2022)**

|                                                                         | Place of occurrence   | No. of cases (No. of deaths) | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>In this reporting period</b>                                         | -                     | 0(0)                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Previously reported cases (onset/ reported in the past 6 months)</b> | <b>Mainland China</b> | 5(0)                         | <b>Avian influenza A(H3N8):</b> <ul style="list-style-type: none"> <li>▪ <b>Henan Province:</b> <ul style="list-style-type: none"> <li>▫ A 4-year-old boy with onset on April 5, 2022.</li> </ul> </li> <li>▪ <b>Hunan Province:</b> <ul style="list-style-type: none"> <li>▫ A 5-year-old boy with onset on May 9, 2022.</li> </ul> </li> </ul> <b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▪ <b>Hunan Province:</b> <ul style="list-style-type: none"> <li>▫ A 5-year-old boy with onset on April 26, 2022.</li> </ul> </li> <li>▪ <b>Sichuan Province:</b> <ul style="list-style-type: none"> <li>▫ A 1-year-old boy with onset on April 28, 2022.</li> </ul> </li> <li>▪ <b>Guizhou Province:</b> <ul style="list-style-type: none"> <li>▫ A 2-year-old boy with onset on May 8, 2022.</li> </ul> </li> </ul> |
|                                                                         | <b>Cambodia</b>       | 1(0)                         | <b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▪ A 13-month-old girl with onset on February 27, 2022.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**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 |
|----------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|---------|
| <b>In this reporting period</b>                                            | 0                                                                    | 0                                                                      | -       |
| <b>Previously reported cases since 2015 (before this reporting period)</b> | 20*                                                                  | 1 <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 \(H5N6\)](#)  
[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             | 23             |
| H5N2             | 1              |
| 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 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Hungary              | Samples from birds in Szabolcs-Szatmár-Bereg, Győr-Ménfőcsanak, Komárom-Esztergom, Tolna, Baranya, Csongrád, Fejér, Somogy, Borsod-Abaúj-Zemplén, Bács-Kiskun, Pest, Budapest, Vas and Hajdú-Bihar were tested positive for highly pathogenic avian influenza A(H5N1). | July 26, 2022   |
| Latvia               | Samples from birds in Rīgas were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                                                                        | July 26, 2022   |
| Taiwan               | Samples from poultry in Yunlin, Changhua, Pingtung, Taipei, Taoyuan, Chiayi County, Nantou, New Taipei and Tainan were tested positive for highly pathogenic avian                                                                                                     | July 26, 2022   |

| Places of occurrence | Details                                                                                                                                                                                                                                                                      | OIE Report Date                 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                      | influenza A(H5N2).                                                                                                                                                                                                                                                           |                                 |
| Belgium              | Samples from birds in Vlaanderen, Wallonie and Belgian Exclusive Economic Zone were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                           | July 27, 2022                   |
| Finland              | Samples from birds in Ahvenanmaan valtionvirasto, Lounais-Suomen aluehallintovirasto, Etelä-Suomen aluehallintovirasto, Pohjois-Suomen aluehallintovirasto and Länsi- ja Sisä-Suomen aluehallintovirasto were tested positive for highly pathogenic avian influenza A(H5N1). | July 27, 2022                   |
| Philippines          | Samples from poultry in Benguet, Nueva Ecija, Camarines Sur, Tarlac, Laguna, Isabela, Pampanga, Bataan, Bulacan, Rizal, Sultan Kudarat, Maguindanao, North Cotabato, South Cotabato and Davao del Sur were tested positive for highly pathogenic avian influenza A(H5N1).    | July 27, 2022                   |
| Sweden               | Samples from birds in Blekinge, Västra Götaland, Kalmar, Gotland, Kronoberg, Västerbotten, Halland, Swedish Exclusive Economic Zone, Skåne, Stockholm, Södermanland and Örebro were tested positive for highly pathogenic avian influenza A(H5N1).                           | July 27, 2022<br>July 28, 2022  |
| Canada               | Samples from poultry and birds in Ontario, British Columbia, Alberta, New Brunswick, Saskatchewan, Québec, Nova Scotia and Manitoba were tested positive for highly pathogenic avian influenza A(H5N1).                                                                      | July 28, 2022<br>August 1, 2022 |
|                      | Samples from birds in Newfoundland and Labrador, Prince Edward Island and Yukon were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                          | July 28, 2022<br>August 1, 2022 |
| Russia               | Samples from birds in Kursk Ryazan', Kaluga, Ivanovo Belgorod, Tver' and Orel were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                            | July 28, 2022                   |
| Germany              | Samples from poultry and birds in Niedersachsen and Schleswig-Holstein were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                                   | July 29, 2022<br>August 1, 2022 |
|                      | Samples from birds in Sachsen-Anhalt and German Exclusive Economic Zone were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                                  | August 1, 2022                  |
| Mainland China       | Samples from birds in Qinghai were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                                                                            | July 29, 2022                   |

| <b>Places of occurrence</b> | <b>Details</b>                                                                                                                                                                                                                            | <b>OIE Report Date</b> |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Netherlands                 | Samples from poultry in Gelderland, Utrecht, Overijssel, Noord-Holland, Flevoland, Groningen, Noord-Brabant, Friesland and Limburg were tested positive for highly pathogenic avian influenza A(H5N1).                                    | July 29, 2022          |
| France                      | Samples from poultry and birds in Pays de la Loire, Nouvelle-Aquitaine, Occitanie, Bretagne, Hauts-de-France, Auvergne-Rhône-Alpes, Centre-Val de Loire and Normandie were tested positive for highly pathogenic avian influenza A(H5N1). | August 1, 2022         |
|                             | Samples from birds in Grand Est, French Exclusive Economic Zone, Bourgogne-Franche-Comté and Île-de-France were tested positive for highly pathogenic avian influenza A(H5N1).                                                            | August 1, 2022         |
| Ireland                     | Samples from birds in Kerry and Donegal were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                                               | August 1, 2022         |
| United Kingdom              | Samples from birds in Guernsey Exclusive Economic Zone and Jersey were tested positive for highly pathogenic avian influenza A(H5N1).                                                                                                     | August 1, 2022         |
|                             | Samples from birds in England were tested positive for highly pathogenic avian influenza A(H5N8).                                                                                                                                         | August 1, 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 August 1, 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                                    | 28/03/2022 (H5N8)                            | H5                                      | 28/03/2022 (H5N1)                            |
| Austria           | -                | -                                                                          | -                                     | -                                            | H5                                      | 22/07/2022 (H5N1)                            |
| Belgium           | -                | -                                                                          | H5                                    | 30/03/2022 (H5N1)                            | H5                                      | 20/07/2022*<br>27/07/2022 (H5N1)             |
| Bulgaria          | -                | -                                                                          | H5                                    | 13/06/2022*                                  | -                                       | -                                            |
| Cameroon          | -                | -                                                                          | H5                                    | 23/02/2022 (H5N1)                            | -                                       | -                                            |
| Canada            | -                | -                                                                          | H5                                    | 28/07/2022 (H5N1)                            | H5                                      | 01/08/2022 (H5N1)                            |
| Croatia           | -                | -                                                                          | H5                                    | 10/06/2022 (H5N1)                            | H5                                      | 23/02/2022 (H5N1)                            |
| Czech Republic    | -                | -                                                                          | H5                                    | 16/05/2022 (H5N1)                            | H5                                      | 17/05/2022 (H5N1)                            |
| Denmark           | -                | -                                                                          | H5                                    | 08/02/2022 (H5N1)                            | H5                                      | 19/04/2022 (H5N8)<br>18/07/2022 (H5N1)       |
| Egypt             | -                | -                                                                          | Endemic (H5)                          | Endemic (H5N1)                               | -                                       | -                                            |
| Estonia           | -                | -                                                                          | -                                     | -                                            | H5                                      | 05/04/2022 (H5N1)                            |
| Faroe Islands     | -                | -                                                                          | -                                     | -                                            | H5                                      | 04/07/2022 (H5N1)                            |
| Finland           | -                | -                                                                          | -                                     | -                                            | H5                                      | 27/07/2022 (H5N1)                            |
| France            | -                | -                                                                          | H5                                    | 01/08/2022 (H5N1)                            | H5                                      | 01/08/2022 (H5N1)                            |
| Gabon             | -                | -                                                                          | H5                                    | 19/05/2022 (H5N1)                            | -                                       | -                                            |
| Germany           | -                | -                                                                          | H5                                    | 29/07/2022 (H5N1)                            | H5                                      | 07/02/2022 (H5N2)<br>01/08/2022 (H5N1)       |
| Greece            | -                | -                                                                          | -                                     | -                                            | H5                                      | 06/05/2022 (H5N1)                            |
| Guinea            | -                | -                                                                          | H5                                    | 03/06/2022 (H5N1)                            | -                                       | -                                            |
| Hungary           | -                | -                                                                          | H5                                    | 07/07/2022 (H5N1)                            | H5                                      | 26/07/2022 (H5N1)                            |
| Iceland           | -                | -                                                                          | H5                                    | 05/05/2022 (H5N1)                            | H5                                      | 24/06/2022 (H5N1)                            |
| India             | -                | -                                                                          | H5                                    | 22/04/2022 (H5N1)                            | -                                       | -                                            |
| Indonesia         | -                | -                                                                          | Endemic (H5)                          | Endemic (H5N1)                               | -                                       | -                                            |
| Iraq              | -                | -                                                                          | H5                                    | 23/06/2022 (H5N8)                            | -                                       | -                                            |
| Ireland           | -                | -                                                                          | -                                     | -                                            | H5                                      | 01/08/2022 (H5N1)                            |
| Israel            | -                | -                                                                          | H5                                    | 07/02/2022 (H5N1)                            | H5                                      | 03/05/2022 (H5N1)<br>29/06/2022 (H5N8)       |

| Countries / Areas | Human cases      |                                                                                  | Poultry cases / other related samples |                                                 | Wild bird cases / other related samples |                                                 |
|-------------------|------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------|-----------------------------------------|-------------------------------------------------|
|                   | Subtype of virus | Date of last report /<br>onset of last reported case<br>(Subtype in this report) | Subtype of virus                      | Date of last report<br>(Subtype in this report) | Subtype of virus                        | Date of last report<br>(Subtype in this report) |
| Italy             | -                | -                                                                                | H5                                    | 13/06/2022 (H5N1)                               | H5                                      | 29/04/2022 (H5N1)                               |
| Japan             | -                | -                                                                                | H5                                    | 18/05/2022 (H5N1)                               | H5                                      | 21/06/2022*<br>21/06/2022 (H5N1)                |
| Kazakhstan        | -                | -                                                                                | -                                     | -                                               | H5                                      | 28/06/2022*                                     |
| Korea             | -                | -                                                                                | H5                                    | 11/04/2022 (H5N1)                               | H5                                      | 11/02/2022 (H5N8)<br>05/04/2022 (H5N1)          |
| Latvia            | -                | -                                                                                | -                                     | -                                               | H5                                      | 26/07/2022 (H5N1)                               |
| Lithuania         | -                | -                                                                                | -                                     | -                                               | H5                                      | 28/06/2022 (H5N1)                               |
| Luxembourg        | -                | -                                                                                | -                                     | -                                               | H5                                      | 10/02/2022 (H5N8)<br>22/02/2022 (H5N1)          |
| Mainland China    |                  |                                                                                  |                                       |                                                 |                                         |                                                 |
| Guangxi           | H5               | 16/04/2022 (H5N6)                                                                | -                                     | -                                               | -                                       | -                                               |
| Henan             | H5               | 18/03/2022 (H5N6)                                                                | -                                     | -                                               | -                                       | -                                               |
| Hubei             | -                | -                                                                                | -                                     | -                                               | H5                                      | 16/05/2022 (H5N8)                               |
| Jiangsu           | H5               | 24/03/2022 (H5N6)                                                                | -                                     | -                                               | -                                       | -                                               |
| Jiangxi           | H5               | 20/02/2022 (H5N6)<br>02/06/2022 (H5N6)                                           | -                                     | -                                               | -                                       | -                                               |
| Qinghai           | -                | -                                                                                | -                                     | -                                               | H5                                      | 29/07/2022 (H5N1)                               |
| Shanxi            | -                | -                                                                                | -                                     | -                                               | H5                                      | 16/05/2022 (H5N8)                               |
| Sichuan           | H5               | 31/03/2022 (H5N6)                                                                | -                                     | -                                               | -                                       | -                                               |
| Mali              | -                | -                                                                                | -                                     | -                                               | H5                                      | 06/04/2022 (H5N1)                               |
| Mexico            | -                | -                                                                                | H7                                    | 27/04/2022 (H7N3)                               | -                                       | -                                               |
| Moldova           | -                | -                                                                                | H5                                    | 11/07/2022 (H5N1)                               | -                                       | -                                               |
| Montenegro        | -                | -                                                                                | -                                     | -                                               | H5                                      | 11/04/2022 (H5N1)                               |
| Namibia           | -                | -                                                                                | -                                     | -                                               | H5                                      | 11/02/2022 (H5N1)                               |
| Nepal             | -                | -                                                                                | H5                                    | 29/06/2022 (H5N1)                               | H5                                      | 28/03/2022 (H5N1)                               |
| Netherlands       | -                | -                                                                                | H5                                    | 29/07/2022 (H5N1)                               | H5                                      | 18/07/2022 (H5N1)                               |
| Nigeria           | -                | -                                                                                | H5                                    | 05/05/2022 (H5N1)                               | -                                       | -                                               |
| North Macedonia   | -                | -                                                                                | -                                     | -                                               | H5                                      | 18/05/2022 (H5N1)                               |
| Norway            | -                | -                                                                                | H5                                    | 04/04/2022 (H5N1)                               | H5                                      | 13/07/2022 (H5N5)<br>21/07/2022 (H5N1)          |
| Philippines       | -                | -                                                                                | H5                                    | 24/03/2022 (H5N8)                               | -                                       | -                                               |

| Countries / Areas        | Human cases      |                                                                                  | Poultry cases / other related samples |                                                 | Wild bird cases / other related samples |                                                 |
|--------------------------|------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------|-----------------------------------------|-------------------------------------------------|
|                          | Subtype of virus | Date of last report /<br>onset of last reported case<br>(Subtype in this report) | Subtype of virus                      | Date of last report<br>(Subtype in this report) | Subtype of virus                        | Date of last report<br>(Subtype in this report) |
|                          |                  |                                                                                  |                                       | 27/07/2022 (H5N1)                               |                                         |                                                 |
| Poland                   | -                | -                                                                                | H5                                    | 06/04/2022 (H5N2)<br>22/07/2022 (H5N1)          | H5                                      | 19/07/2022 (H5N1)                               |
| Portugal                 | -                | -                                                                                | H5                                    | 23/02/2022 (H5N1)                               | H5                                      | 30/06/2022 (H5N1)                               |
| Romania                  | -                | -                                                                                | H5                                    | 29/03/2022 (H5N1)                               | H5                                      | 21/03/2022 (H5N1)                               |
| Russia                   | -                | -                                                                                | H5                                    | 14/02/2022 (H5N1)                               | H5                                      | 28/06/2022*<br>28/07/2022 (H5N1)                |
| Senegal                  | -                | -                                                                                | H5                                    | 10/02/2022 (H5N1)                               | H5                                      | 17/02/2022 (H5N1)                               |
| Slovakia                 | -                | -                                                                                | H5                                    | 01/06/2022 (H5N1)                               | H5                                      | 12/04/2022 (H5N1)                               |
| Slovenia                 | -                | -                                                                                | -                                     | -                                               | H5                                      | 16/02/2022 (H5N1)                               |
| South Africa             | -                | -                                                                                | H5                                    | 22/07/2022 (H5N1)                               | H5                                      | 19/07/2022 (H5N1)                               |
| Spain                    | -                | -                                                                                | H5                                    | 25/03/2022 (H5N1)                               | H5                                      | 07/07/2022 (H5N1)                               |
| Sweden                   | -                | -                                                                                | -                                     | -                                               | H5                                      | 25/03/2022 (H5N8)<br>28/07/2022 (H5N1)          |
| Switzerland              | -                | -                                                                                | -                                     | -                                               | H5                                      | 18/03/2022 (H5N1)                               |
| Taiwan                   | -                | -                                                                                | H5                                    | 26/07/2022 (H5N2)                               | H5                                      | 07/06/2022 (H5N2)<br>04/07/2021 (H5N1)          |
| United Kingdom           | -                | -                                                                                | H5                                    | 25/07/2022 (H5N1)                               | H5                                      | 01/08/2022 (H5N1)<br>01/08/2022 (H5N8)          |
| United States of America | H5               | 20/04/2022 (H5N1)                                                                | H5                                    | 22/07/2022 (H5N1)                               | H5                                      | 25/07/2022 (H5N1)                               |
| Vietnam                  | -                | -                                                                                | H5                                    | 14/06/2022 (H5N1)                               | -                                       | -                                               |

Sources: WHO, OIE, NHC and other official websites

\* without further subtype information