

Situation report period covered: 4 May to 4 June 2024

This report provides an update of the high pathogenicity avian influenza (HPAI) situation, according to the information submitted through the World Animal Health Information System of the World Organisation for Animal Health (WAHIS) between 4 May and 4 June 2024 (4-week period).

Key messages

The current HPAI epidemic season continues with 11 outbreaks being reported in poultry and 28 in non-poultry birds and mammals over the 4 weeks covered by the report, in the Americas, Asia, Europe and Oceania. About 1.9 million poultry birds died or were culled during the 4 weeks period, mostly in the Americas.

The period covered by this report has been marked by the occurrence of HPAI in Oceania. Before May 2024, the last outbreaks of HPAI in Oceania were reported in 2020. In May 2024, two strains detected in Australia in poultry were reported to WOA. As explained by official authorities of the country, the H7N3 and H7N9 viruses detected in poultry was genetically related to strains detected in wild birds in Australia.

In addition, the World Health Organization (WHO) was [notified](#) about a case of human infection with an influenza A(H5N2) virus in Mexico on 23 May 2024. According to WHO, it had not been possible to establish if this human case was related to poultry outbreaks reported in the country during past months. This was the first laboratory-confirmed human case of infection with an influenza A(H5N2) virus reported globally and the first avian H5 virus infection in a person reported in Mexico. Based on available information, WHO assessed the risk to the general population posed by this virus as low.

WOAH continues to pay close attention to the situation of HPAI in dairy cows in the United States of America and continues to disseminate information provided by the official services of the United States of America via [WAHIS](#).

In May 2024, a human case of HPAI H5 virus infection in the United States was [reported](#) by official authorities of the United States of America in the state of Michigan. This was the second case associated with the multistate event in dairy cows. As with the case in Texas, the individual was a worker on a dairy farm where H5N1 virus had been identified in cows. The patient only reported eye symptoms.

WOAH recommends that countries maintain their surveillance efforts, implement biosecurity and preventive measures at farm level, and continue timely reporting of avian influenza outbreaks in both poultry and non-poultry species. WOA stresses the importance of reporting outbreaks of avian influenza in unusual hosts, as the virus has been increasingly detected in mammals in recent months, a situation that should be monitored. Considering the situation in dairy cattle, WOA also recommends protecting humans in close contact with or handling sick cattle or other sick livestock and their products, while avoiding implementing unjustified trade restrictions.

High quality of information is key to support prevention and rapid response to HPAI.**Seasonal trend**

One of the major changes in the dynamics of HPAI in recent years has been its seasonal nature. Traditionally, the global seasonality of HPAI in poultry was as follows: the spread was lowest in September, began to increase in October and peaked in February¹. This seasonality pattern was mainly influenced by countries in the northern hemisphere. Every year since 2005, the majority of outbreaks have occurred in the northern hemisphere, except, according to WAHIS data, in 2008, 2009 and 2019, the three years in which Indonesia was the country that reported the highest number of poultry outbreaks.

Figure 1 focuses on poultry and shows the seasonality of HPAI separately for the northern and southern hemispheres. For the northern hemisphere (Figure 1a), given that more than 180 outbreaks have been notified each year since 2005, a comparison between the seasonal pattern for 2023 and the seasonal pattern observed between 2005 and 2019 has

¹ Awada, L., Tizzani, P., Noh, S.M., Ducrot, C., Ntsama, F., Caceres, P., Mapitse, N. and Chalvet-Monfray, K., 2018. Global dynamics of highly pathogenic avian influenza outbreaks in poultry between 2005 and 2016—focus on distance and rate of spread. *Transboundary and Emerging Diseases*, 65(6), pp.2006-2016.

been provided, based on the number of outbreaks notified to WOA. To compare seasonality between years, the number of outbreaks was centred and scaled by calendar year. The average was then computed for each month of the period between 2005 and 2019. The figure shows that the peak traditionally observed in February at a global level has shifted to January and that the increase traditionally starting in October has remained in place.

For the southern hemisphere (Figure 1b), as outbreaks have been rarer over time, only the seasonal profile for 2023 is presented, based on the raw number of outbreaks notified to WOA. In that year, 217 outbreaks were notified by five countries in South America (Argentina, Bolivia, Chile, Ecuador, and Peru) and two countries in eastern and southern Africa (Mozambique and South Africa). The graph shows an initial small peak in February (corresponding to the peak in South America); then the spread began to increase again in July and reached a higher peak in September (corresponding to the peak in South Africa).

The red rectangle indicates where we currently are in the 2024 cycle based on the period covered in “recent updates” below.

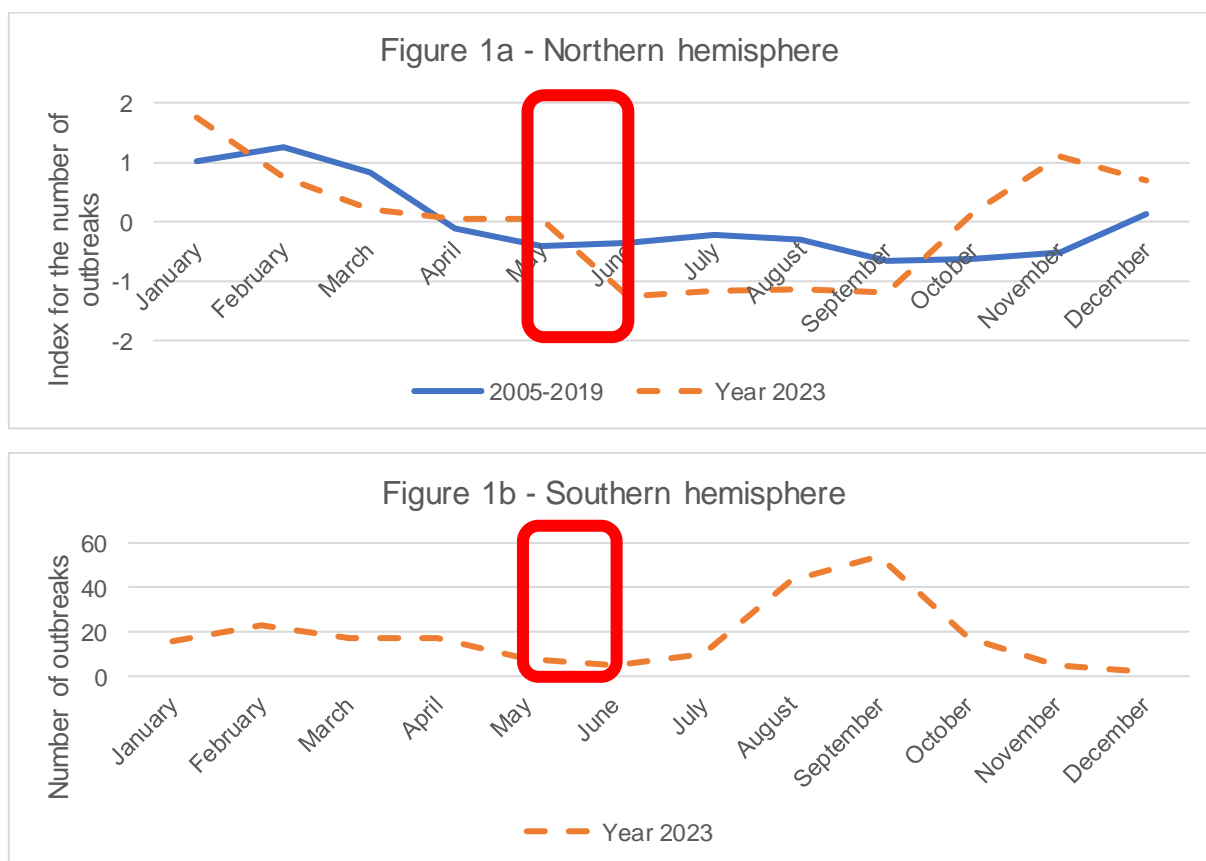


Figure 1. Number of HPAI outbreaks in poultry reported to WOA for 2023, by month and by hemisphere. For the northern hemisphere (1a), the 2023 distribution is compared to the distribution for the period between 2005 and 2019. Values were centred and scaled each year, for comparability; the average was then computed for each month of the period between 2005 and 2019. For the southern hemisphere (1b), only the 2023 distribution is presented, based on the raw number of outbreaks. The comparison with 2005–2019 is not shown as outbreaks were rare in the southern hemisphere during this period.

In Europe, an unprecedented number of HPAI virus detections were reported in wild and domestic birds from June to September 2022, according to the European Food Safety Authority (EFSA)². European countries/territories reported 118 outbreaks in poultry and 781 outbreaks in wild birds via WAHIS for the summer of 2022. The number of reported outbreaks in wild birds has been particularly high; whereas there were between 0 and 80 outbreaks each summer (June–September) during the period 2017–2021, the number of outbreaks increased to an unprecedented level in 2022. Between June and September 2023, the number of outbreaks in wild birds remained very high, with 648 outbreaks reported. This shows that, since 2022, the virus has persisted in wild birds in Europe during the summer, whereas it was rarely detected in previous summers.

²<https://efsa.onlinelibrary.wiley.com/doi/pdf/10.2903/j.efsa.2022.7597#:~:text=Between%2011%20June%20and%209,the%20northwest%20coast%20of%20Europe.>

Recent updates (04/05/2024-04/06/2024)

To describe the current disease situation of HPAI in poultry and in non-poultry birds, this section covers: (a) a list of new events³ which started during the 4-week period (reported through immediate notifications); (b) information on events that started before the 4-week period but were still ongoing during that period; (c) the geographic distribution of new outbreaks⁴ that started during the 4-week period and d) events which started before the 4-week period but were reported during the 4-week period. The different subtypes of HPAI circulating during the 4-week period are also listed below. This information is based on the immediate notifications and follow-up reports received by WOA. H.

HPAI in poultry

New events by world region (reported through immediate notifications)

Asia

H5N1

A recurrence started in Korea (Rep. of) (Gyeongsangbuk-do) on 22 May 2024.

Oceania

H7N3

The occurrence of a new strain started in Australia (Victoria) on 17 May 2024.

H7N9

The occurrence of a new strain started in Australia (Victoria) on 22 May 2024.

Africa, Americas and Europe

No new events reported.

On-going events for which there were new reported outbreaks, by world region (reported through follow-up reports):

Americas

H5N1

United States of America

Europe

H5N1

Bulgaria

Africa, Asia, and Oceania

No new outbreaks reported in the on-going events, or no on-going events.

New outbreaks and associated subtypes

During the period covered by this report, 11 new outbreaks in poultry were notified by four countries (Australia, Bulgaria, Korea (Rep. of), United States of America). Details are presented in Figures 2 and 3.

³ As defined in [Article 1.1.2](#) of the WOA. H. Terrestrial Animal Health Code, an "event" means a single outbreak or a group of epidemiologically related outbreaks of a given listed disease or emerging disease that is the subject of a notification. An event is specific to a pathogenic agent and strain, when appropriate, and includes all related outbreaks reported from the time of the initial notification through to the final report. Reports of an event include susceptible species, the number and geographical distribution of affected animals and epidemiological units.

⁴ As defined in the [glossary](#) of the WOA. H. Terrestrial Animal Health Code, an "outbreak" means the occurrence of one or more cases in an epidemiological unit.



Figure 2. Distribution of HPAI new outbreaks in poultry, and corresponding subtypes

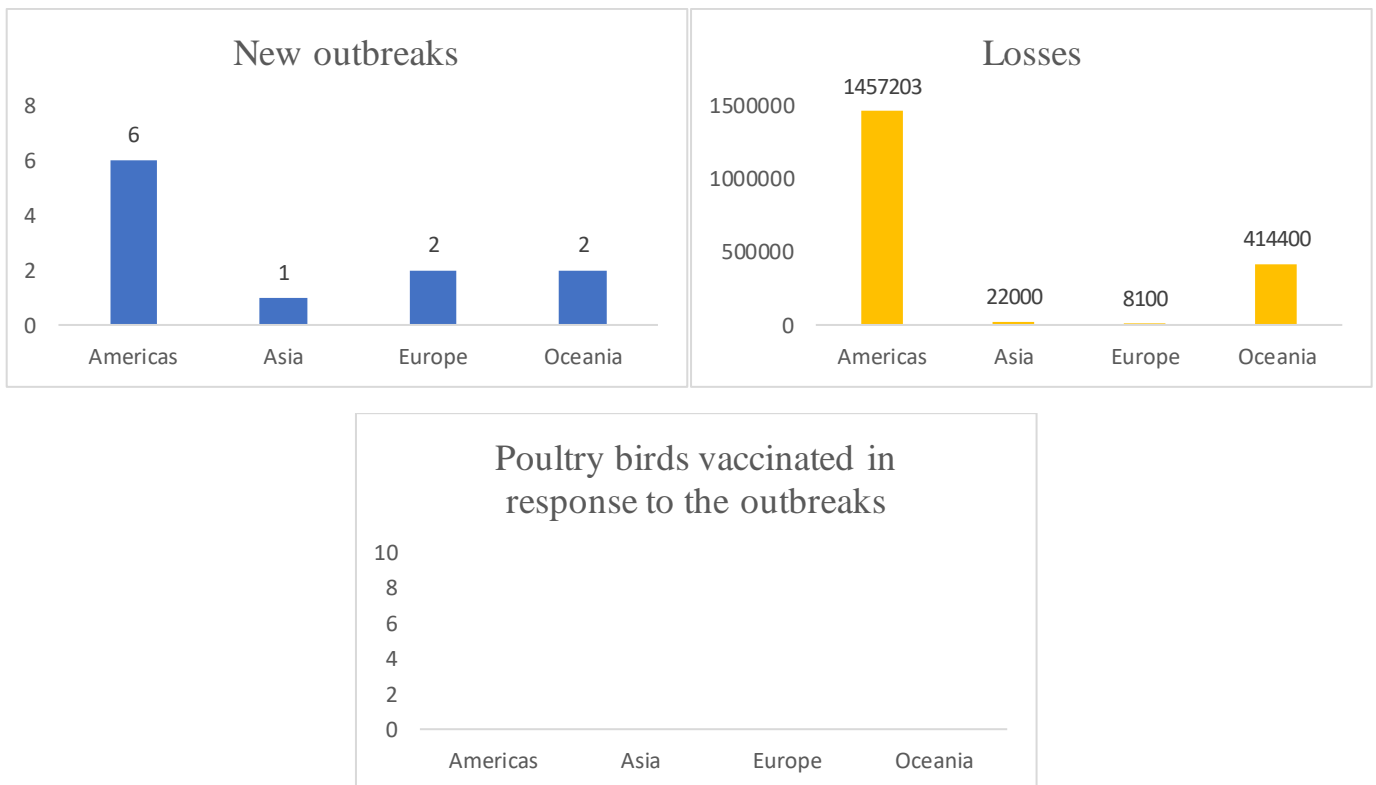


Figure 3. Number of new outbreaks, associated losses, and number of poultry birds vaccinated in response to these outbreaks by geographical region (losses include animals dead and killed and disposed of within outbreaks – they do not include culling around outbreaks ; vaccinated poultry birds include animals that were vaccinated as a control measure in response to the

outbreaks, they do not include other official vaccination programmes, for which data is reported through the six-monthly reporting channel).

Events which started before the 4-week period but were reported during the 4-week period (reported through immediate notifications)

Asia

H5N1

Two recurrences started in India:

- A recurrence in the area of Jharkhand on 4 April 2024.
- Another recurrence in the area of Kerala on 9 April 2024.

Africa, Americas, Europe, and Oceania

No events reported.

HPAI in non-poultry

New events by world region (reported through immediate notifications)

Asia

H5N1 in non-poultry birds

A recurrence started in China (People's Rep. of) (Qinghai) on 11 May 2024.

A recurrence started in Iraq (As-Sulaymaniyah) on 11 May 2024.

Europe

H5N1 in non-poultry birds

A recurrence started in Spain (Andalucía) on 10 May 2024.

Africa, Americas, Antarctica, and Oceania

No new events reported.

On-going events for which there were new reported outbreaks, by world region (reported through follow-up reports):

Americas

H5N1 in non-poultry birds

Brazil, United States of America

H5N1 in mammals

United States of America (dairy cattle, cats, domestic alpaca, wild racoon [*Procyon lotor*])

Africa, Asia, Antarctica, Europe, and Oceania

No new outbreaks reported in the on-going events, or no on-going events.

New outbreaks

During the period covered by this report, a total of 28 outbreaks in non-poultry birds and mammals were reported through WAHIS by 5 countries (Brazil, China (People's Rep. of), Iraq, Spain, United States of America). Details are presented in Figures 4 and 5.



Figure 4. Distribution of HPAI new outbreaks in non-poultry animals reported through WAHIS, and corresponding subtypes.

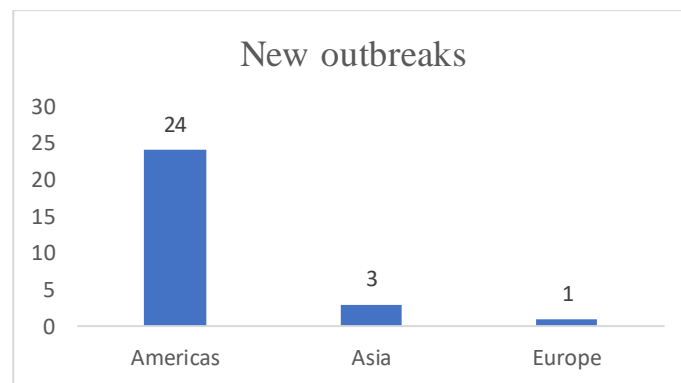


Figure 5. Number of new outbreaks reported through WAHIS by geographical region

Events which started before the 4-week period but were reported during the 4-week period (reported through immediate notifications or through emails)

Europe

H5N1 in non-poultry birds

Sweden informed WOA of a case of HPAI H5N1 in an otter (*Lutra lutra*), which was found dead on the west coast of the country on 2 February 2024

Africa, Americas, Asia, Antarctica, and Oceania

No new cases reported.

Other cases in mammals by world region (reported through emails)

Africa, Americas, Asia, Antarctica, Europe, and Oceania

No new events reported.

Self-declarations of freedom published during the 4-week period

In accordance with the provisions of the *Terrestrial Animal Health Code*, Members may wish to self-declare the freedom of their country, zone or compartment from HPAI. A Member wishing to publish its self-declaration for disease-freedom, should provide the relevant documented evidence of compliance with the provisions of the Code.

The WOAAH Delegate of **Czech Republic** [declared](#) that the country complies with the requirements to declare the **recovery of freedom from infection with high pathogenicity avian influenza virus (HPAI) in poultry as of 8 May 2024**, in accordance with Chapter 1.6. and Article 10.4.6. of *Terrestrial Code* (2023 edition) and consistent with the information provided to WAHIS.

Epidemiological background

High pathogenicity avian influenza (HPAI) is caused by influenza A viruses in the family Orthomyxoviridae. Since its identification in China (People's Rep. of) in 1996, there have been multiple waves of intercontinental transmission of the H5Nx Gs/GD lineage virus. HPAI has led to the death and mass slaughter of over 557 million poultry worldwide between 2005 and 2023, with an unprecedented peak of 141 million in 2022. During this peak in 2022, more than 85 countries and territories in the world were affected with HPAI. In addition, up to now, humans have occasionally been infected with subtypes H5N1 (around 870 cases reported, of which half died), H7N9 (around 1,500 cases reported, of which about 600 died), H5N6 (around 80 cases reported, of which about 30 died), H9N2 (around 80 cases reported, of which 2 died) and sporadic cases have been reported with subtypes H3N8, H7N4, H7N7 and H10N3^{5,6,7,8,9}.

Recent news

- [Global strategy for the prevention and control of high pathogenic avian influenza \(2024–2033\)](#)
- [High Pathogenicity Avian Influenza in Cattle](#)
- [Joint FAO/WHO/WOAH preliminary assessment of recent influenza A\(H5N1\) viruses](#)
- [OFFLU statement on high pathogenicity avian influenza in dairy cows](#)
- [Updated OFFLU statement on high pathogenicity avian influenza in dairy cows](#)
- [OFFLU diagnostic guidance: HPAI dairy cattle](#)
- [GF-TADs meeting: Detection of HPAI in ruminants and humans in the USA](#)
- [Wildlife under threat as avian influenza reaches Antarctica](#)
- [WOAH policy brief: Avian influenza vaccination: why it should not be a barrier to safe trade](#)
- [OFFLU statement: Continued expansion of high pathogenicity avian influenza H5 in wildlife in South America and incursion into the Antarctic region](#)
- [OFFLU call to discuss AI in the Latin America and Caribbean Region](#)
- [OFFLU avian influenza matching \(OFFLU-AIM\) report](#)
- [OFFLU ad-hoc group on HPAI H5 in wildlife of South America and Antarctica: Southward expansion of high pathogenicity avian influenza H5 in wildlife in South America: estimated impact on wildlife populations, and risk of incursion into Antarctica](#)
- [OFFLU's annual report: tackling animal influenza through data sharing](#)
- [WOAH's Animal Health Forum reshapes avian influenza prevention and control strategies](#)
- [WOAH Statement on avian influenza and mammals](#)
- [OFFLU statement: Infections with Avian Influenza A\(H5N1\) virus in cats in Poland](#)

WOAH resources

- [Avian influenza portal](#)
- [Self-declared disease status](#)
- [World Animal Health Information System \(WAHIS\)](#)
- [Animal Health Forum on avian influenza: policy to action: The case of avian influenza – reflections for change](#)
- [Strategic challenges in the global control of high pathogenicity avian influenza](#)
- [Resolution adopted in WOA General Session 2023: Strategic challenges in the global control of HPAI](#)

⁵ Chen H. 2019. H7N9 viruses. *Cold Spring Harb Perspect Med* doi: 10.1101/cshperspect.a038349

⁶ WHO. Influenza (Avian and other zoonotic), 2018, available at [https://www.who.int/news-room/fact-sheets/detail/influenza-\(avian-and-other-zoonotic\)](https://www.who.int/news-room/fact-sheets/detail/influenza-(avian-and-other-zoonotic))

⁷ WHO. Cumulative number of confirmed human cases for avian influenza A(H5N1) reported to WHO,

2003-2022, 25 November 2022, available at https://cdn.who.int/media/docs/default-source/influenza/human-animal-interface-risk-assessments/2022_nov_tableh5n1.pdf?sfvrsn=babfcad1_1&download=true

⁸ Yang L, Zhu W, Li X, Chen M, Wu J, Yu P, Qi S, Huang Y, Shi W, Dong J, Zhao X, Huang W, Li Z, Zeng X, Bo H, Chen T, Chen W, Liu J, Zhang Y, Liang Z, Shi W, Shu Y, Wang D. 2017a. Genesis and spread of newly emerged highly pathogenic H7N9 avian viruses in mainland China. *J Virol* doi: <https://doi.org/10.1128/JVI.01277-17>

⁹ WHO Avian Influenza Weekly Update Number 924, <https://iris.who.int/bitstream/handle/10665/365675/AI-20231201.pdf?sequence=1906&isAllowed=y>

- [Considerations for emergency vaccination of wild birds against high pathogenicity avian influenza in specific situations](#)
- [Practical guide for authorised field responders to HPAI outbreaks in marine mammals](#)

Awareness tools

- [Infographic: Understanding avian influenza](#)
- [Avian influenza: understanding new dynamics to better combat the disease](#)
- [Avian influenza: why strong public policies are vital](#)
- [Video: Avian influenza threatens wild birds across the globe](#)

Press inquiries: [**media@woah.org**](mailto:media@woah.org)

OFFLU resources

- [OFFLU annual report 2023](#)
- [OFFLU Statement on high pathogenicity avian influenza caused by viruses of the H5N1 subtype](#)
- [OFFLU avian influenza matching \(AIM\) pilot study](#)
- [OFFLU avian influenza VCM report for WHO vaccine composition meetings \(February 2024\)](#)

Other relevant resources

- [Cumulative number of confirmed human cases for avian influenza A\(H5N1\) reported to WHO, 2003-2023](#)
- [WHO, Human infection with avian influenza A\(H5\) viruses](#)
- [Epidemiological Alert Outbreaks of avian influenza and human infection caused by influenza A\(H5\) public health implications in the Region of the Americas](#)
- [WHO, Influenza at the human-animal interface, Summary and risk assessment, from 27 February to 28 March 2024](#)
- [HPAI detections in livestock](#)