Situation report period covered: 27 January to 16 February 2023

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 27 January and 16 February 2023.

Seasonal trend

Using data reported to the World Organisation for Animal Health (WOAH) between 2005 and 2019 by 76 affected countries and territories for 18,620 outbreaks in poultry, we carried out a Seasonal and Trend decomposition using Loess (STL) analysis to determine the seasonal pattern of the disease (detailed methodology presented in Awada et al., 2018¹). Based on the data reported to WOAH, spread is lowest in September, begins to rise in October, and peaks in February. Figure 1 shows the global seasonal pattern of HPAI in poultry and the red rectangle indicates where we currently are in the cycle based on the period covered in “recent updates” below.

Figure 1. Seasonal trend in global HPAI incidence in poultry

Recent updates (27/01/2023-16/02/2023)

To describe the current disease situation of HPAI in poultry and in non-poultry birds, this section covers: (a) a list of new events² which started during the 3-week period (reported through immediate notifications); (b) information on events that started before the 3-week period but were still ongoing during that period; (c) the geographic distribution of new outbreaks³ that started during the 3-week period and d) events which started before the 3-week period but were reported during the 3-week period. The different subtypes of HPAI circulating during the 3-week period are also listed below. This information is based on the immediate notifications and follow-up reports received by WOAH.

HPAI in poultry

New events by world region (reported through immediate notifications)

- **Asia**
  - H5N1
  - A recurrence started in Türkiye (Afyon) on 31 January 2023

- **Europe**
  - **Subtype H5N1**
  - A recurrence started in Germany (Sachsen-Anhalt) on 30 January 2023
  - A recurrence started in Slovakia (Trnavský) on 31 January 2023 (Clade 2.3.4.4b; Lineage: Fully Eurasian)

- **Africa, Americas, and Oceania**
  - No new events reported

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² As defined in Article 1.1.2. of the WOAH 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.

³ As defined in the glossary of the WOAH Terrestrial Animal Health Code, an “outbreak” means the occurrence of one or more cases in an epidemiological unit.
On-going events for which there were new reported outbreaks, by world region (reported through follow-up reports):

**Americas**
- **Subtype H5N1**
  - Bolivia, Canada (Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American), United States of America

**Asia**
- **Subtype H5N1**
  - Japan and Nepal

**Europe**
- **Subtype H5N1**
  - Austria, France, Hungary, Romania, Spain and United Kingdom

**Africa, 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, a total of 37 new outbreaks in poultry were reported by 14 countries (Austria, Bolivia, Canada, France, Germany, Hungary, Japan, Nepal, Romania, Slovakia, Spain, Türkiye, United Kingdom, United States of America). Details are presented in Figures 2 and 3.

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**Figure 2. Distribution of HPAI new outbreaks in poultry, and corresponding subtypes**
Events which started before the 3-week period but were reported during the 3-week period (reported through immediate notifications)

**Americas**

**Subtype H5N1**
The first occurrence in Bolivia (Cochabamba) started on 21 January 2023.

**Asia**

**Subtype H5N1**
A recurrence started in Nepal (Bagmati Pradesh) on 24 January 2023.

**Subtype H5N5**
A recurrence started in Chinese Taipei (Chinese Taipei) on 12 January 2023.

**Europe**

**Subtype H5N1**
A recurrence started in Romania (Brașov) on 26 January 2023.

A new strain was detected in Bulgaria (Sofia) on 24 January 2023.

**Africa, and Oceania**
No events reported

**HPAI in non-poultry**

New events by world region (reported through immediate notifications)

**Americas**

**Subtype H5N1**
The first occurrence in Cuba (Ciudad de la Habana) started on 4 February 2023.

**Africa, Asia, Europe, 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**

**Subtype H5N1**
Chile, United States of America

**Europe**

**Subtype H5N1**
Austria, Belgium, Czech Republic, France, Germany, Hungary, Italy, Luxembourg, Poland, Romania, Russia, Slovakia (Clade 2.3.4.4b - Lineage: Fully Eurasian), Slovenia (Clade 2.3.4.4b - Lineage: Fully Eurasian), Sweden, Switzerland, United Kingdom

**Africa, Asia, 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 121 outbreaks in non-poultry were reported by 19 countries (Austria, Belgium, Chile, Cuba, Czech Republic, France, Germany, Hungary, Italy, Luxembourg, Poland, Romania, Russia, Slovakia, Slovenia, Sweden, Switzerland, United Kingdom, United States of America). Details are presented in Figures 4 and 5.

Figure 4. Distribution of HPAI new outbreaks in non-poultry birds, and corresponding subtypes.

![Distribution of HPAI new outbreaks in non-poultry birds, and corresponding subtypes.](image)

Figure 5. Number of new outbreaks by geographical region.

![Number of new outbreaks by geographical region.](image)

Events which started before the 3-week period but were reported during the 3-week period (reported through immediate notifications)

**Americas**
- **Subtype H5**
  - The first occurrence started in Ecuador (Limón) on 7 December 2022.

**Europe**
- **Subtype H5N1**
  - A recurrence started in Russia (Belgorod) on 26 January 2023

**Africa, Asia, and Oceania**
- No events reported
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 resulted in the death and mass slaughter of more than 316 million poultry worldwide between 2005 and 2021, with peaks in 2021, 2020 and 2016. During each of the years 2006, 2016, 2017 and 2021, more than 50 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 H10N34,5,6,7,8.

Key messages

The current HPAI epidemic season continues with 37 outbreaks being reported in poultry and about 120 in non-poultry birds over the 3 weeks covered by the report, mainly in Europe, and also in the Americas and Asia. Outbreaks are also spreading further to Central America countries. It is worth highlighting the first occurrence of HPAI in poultry in Bolivia, and the first occurrence of HPAI in non-poultry birds in Cuba and Ecuador. About 2.5 million poultry birds died or were culled worldwide during the 3 weeks period. The predominant subtype noticed in the current epidemic season is still subtype H5N1. Based on the HPAI seasonal pattern, the number of outbreaks in animals is expected to reach its peak.

The World Organisation for Animal Health (WOAH) recommends that countries maintain their surveillance efforts, biosecurity measures at farm level, and continue timely reporting of avian influenza outbreaks in both poultry and non-poultry species. WOAH also stresses the importance of reporting outbreaks of avian influenza in unusual hosts, as it has been noted that the virus has been increasingly detected in mammals in recent months, a situation that should be monitored. High quality of information is key to support early detection and rapid response to potential threats to both animal and public health.

Visit our website for more information on avian influenza. For any press inquiry on the disease, you can email us at media@woah.org

Other relevant resources

- OFFLU avian influenza matching (AIM) pilot study
- WOAH Statement on avian influenza and mammals
- WHO, Human infection with avian influenza (H5) viruses
- Influenza at the human-animal interface summary and assessment, January 2023
- World Organisation for Animal Health (WOAH), Self-declared Disease Status
- ‘World Animal Health Information System (WAHIS)
- One health Joint plan of action (2022 – 2026)
- 30th Conference of the Regional Commission for Europe, Catania, Italy, October 2022
- OFFLU AI situation update (December 2022)
- First meeting of the Standing Group of Experts on Avian Influenza, Americas
- Epidemiological Alert Outbreaks of avian influenza and human infection caused by influenza A(H5) public health implications in the Region of the Americas
- OFFLU avian influenza VCM report for WHO vaccine composition meetings (September 2022)

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