H5 HPAI in 2016

H5 strains of HPAI spread around the world in 2016. All of the data in this presentation illustrates OIE reports from member countries; not all countries may choose to self-report HPAI incidents to the OIE. Part 1 of this presentation shows the outbreaks by regions in the world; Part 2 of this presentation provides a monthly progression of H5 HPAI around the world throughout 2016. These maps show reports submitted to the OIE in calendar year 2016.
Part 1: H5 HPAI by Region
H5 HPAI from the Americas, 2016

Source: OIE

H5 HPAI in North America
As of writing, the only case of H5 HPAI in the Americas is a case of H5N2 identified in a wild bird in Fairbanks, Alaska in August.

H5 HPAI in Central & South America
There have been no reports of HPAI from Central or South America.

*All dates refer to the start date as reported to the OIE.
H5 HPAI in Africa

The most common H5 HPAI subtype reported from African countries in 2016 was H5N1, which occurred in six of the seven African countries reporting an H5 HPAI strain this year.

- Outbreaks of H5N1 were reported early this year in domestic birds from Nigeria, Niger, Ghana, and Côte d'Ivoire.
- Côte d'Ivoire and Cameroon continued to experience outbreaks of H5N1 through the summer.
- Togo reported an outbreak of H5N1 in domestic birds in August.
- Reports of H5N1 persisted in Ghana and Nigeria into October and November, respectively.

Nigeria and Tunisia detected the first cases of H5N8 in the region in November.

- Domestic birds were affected in Nigeria
- Wild birds were affected in Tunisia

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H5 HPAI in Asia

Twelve countries in Asia reported four H5 HPAI subtypes in 2016, as well as additional H5 untyped cases. Most cases were reported in domestic birds; no cases were reported in captive birds.

- Vietnam, Myanmar, Laos, India, China, Cambodia, Bhutan, and Bangladesh reported cases of H5N1, mostly in the beginning of this year and with a few reports in the fall.
- Taiwan experienced a significant outbreak of H5N2 early in the year, with cases continuing to be reported into the fall.
- Vietnam, Hong Kong, and China reported H5N6 early in the year, with reports of this subtype continuing in China throughout the year and reappearing during the fall in Hong Kong.
- Cases of H5N8 were also reported in the Republic of Korea and Japan in the fall.
- Reports of H5N8 appeared in Taiwan and the Republic of Korea in the spring/summer and in Taiwan and India in the fall.

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Five countries in the Middle East reported two subtypes of H5 HPAI in 2016.

- **Iraq** reported cases of H5N1 early this year in domestic birds, and significant outbreaks occurred again in summer as they reported the largest H5 HPAI outbreak this year in June.
- Cases of H5N1 were also reported in **Lebanon** in the late spring in domestic birds.
- Reports of H5N8 started in **Israel**, **Iran**, and **Egypt** in November.
  - In Israel, H5N8 was detected in domestic and wild birds starting in November, and cases persisted through the end of the year.
  - In Iran, H5N8 was reported primarily in domestic birds, though a case in a wild bird was also reported.
  - **Egypt** reported a single case of H5N8 in a wild bird.

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H5 HPAI in Europe

Nineteen countries in Europe reported five subtypes of H5 HPAI in 2016, as well as untyped H5 HPAI.

Reports of H5 HPAI were confined to France early in the year; H5N1, H5N2, and H5N9 were reported there in domestic birds.

In October, reports of H5N8 in Poland, Hungary, and Croatia heralded the beginning of a region-wide outbreak of this subtype in both domestic and wild birds.

- By the end of the year, the U.K., Ukraine, Switzerland, Sweden, Serbia, Romania, the Netherlands, Greece, Germany, France, Finland, Denmark, and Austria also reported H5N8.
- This outbreak has heavily affected poultry: over 142,000 H5N8 cases have been confirmed in European poultry, resulting in the death or destruction of over 1.1 million birds.

The Netherlands and Montenegro reported cases of H5N5 in wild birds in the fall of 2016.

*All dates refer to the start date as reported to the OIE.*
H5 HPAI from Russia, 2016
Source: OIE

- A case of H5N8 in a wild bird in Russia was reported in June.
- Cases of H5N8 were reported again November, this time in poultry.
- Additional reports of a yet-unspecified subtype of H5 HPAI followed in December.

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Part 2: H5 HPAI by Month (Cumulative)
2016 H5 HPAI Reports Each Month, January

Source: OIE

Point sizes for each type of bird correspond to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru February

Source: OIE

Point sizes for each type of bird correspond to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru March
Source: OIE

Reports with start dates in: March

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru April
Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru May
Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru June
Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru July
Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru August

Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru September

Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru October

Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru November

Source: OIE

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.
2016 H5 HPAI Reports Each Month, thru December
Source: OIE

Reports with start dates in: December

Point sizes for each type of bird corresponds to total number of cases. All points are equally transparent to show overlapping reports.