



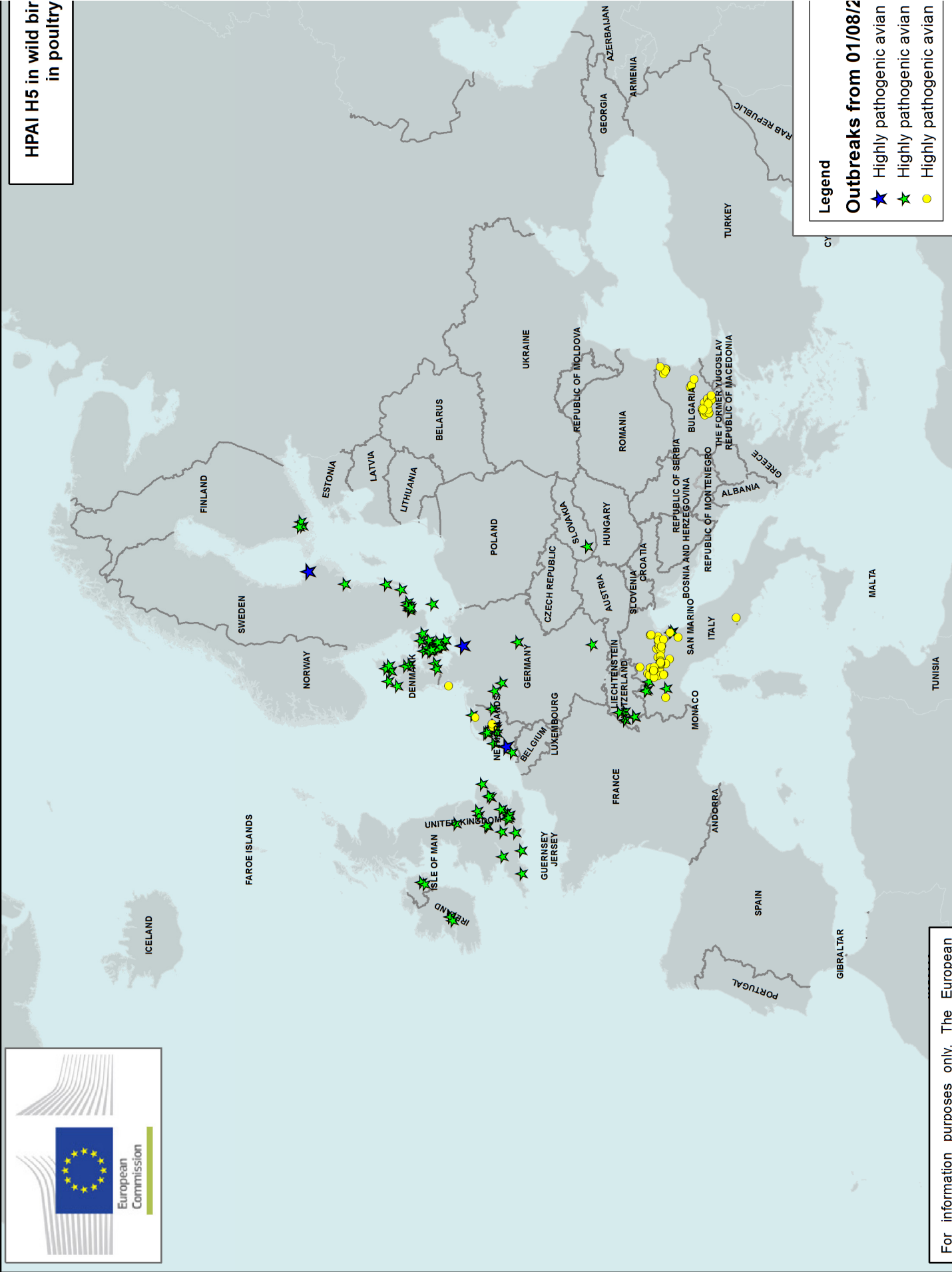
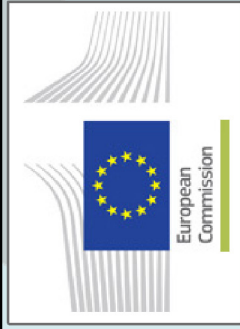
Update on avian influenza

Animal Health Advisory Committee

3 December 2018

DG SANTE – Unit G3
Directorate-General, Health and Food Safety
Official controls and eradication of diseases in animals

**HPAI H5 in wild bir
in poultry**



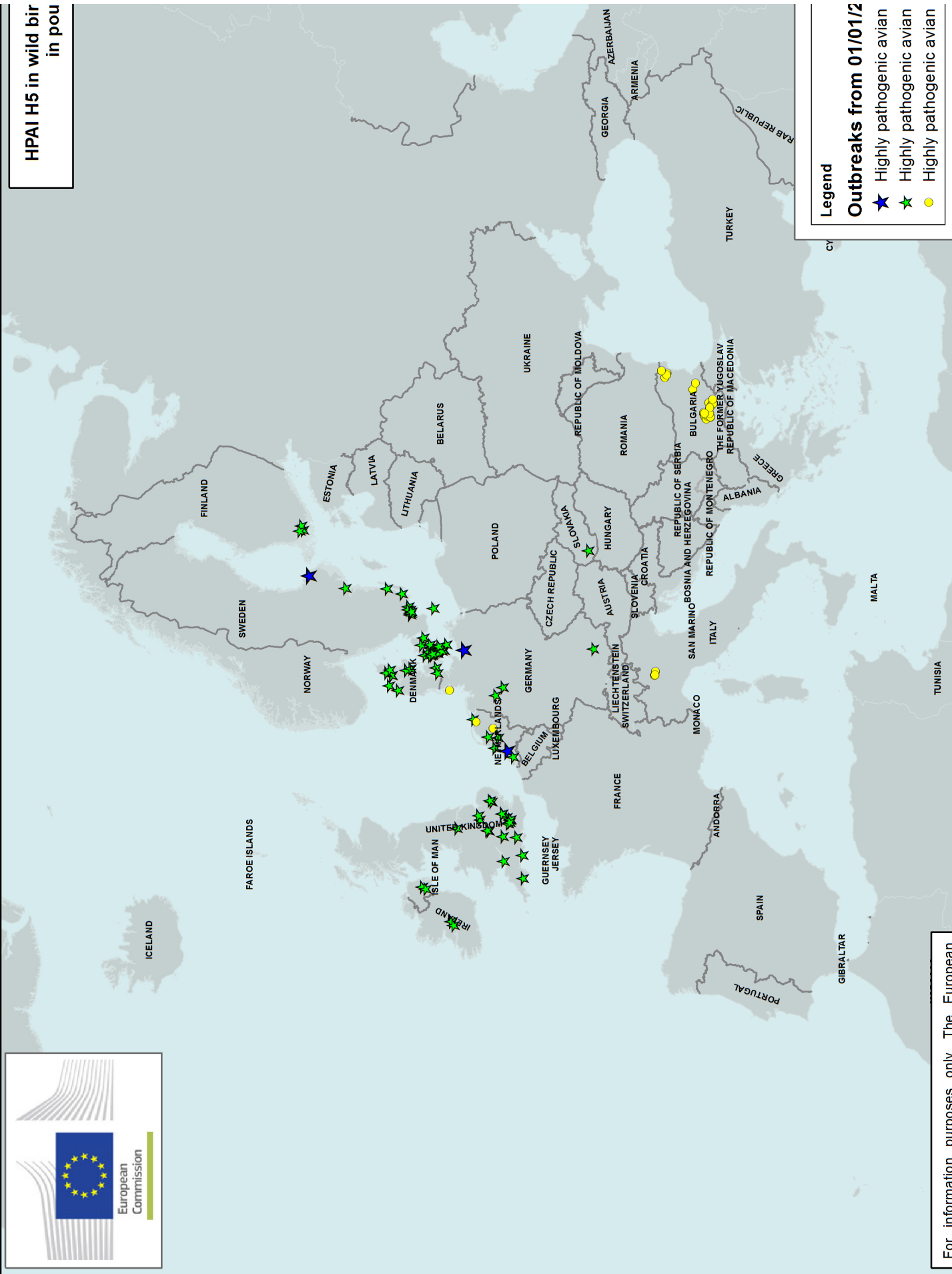
Legend

Outbreaks from 01/08/12

- ★ Highly pathogenic avian
- ★ Highly pathogenic avian
- Highly pathogenic avian

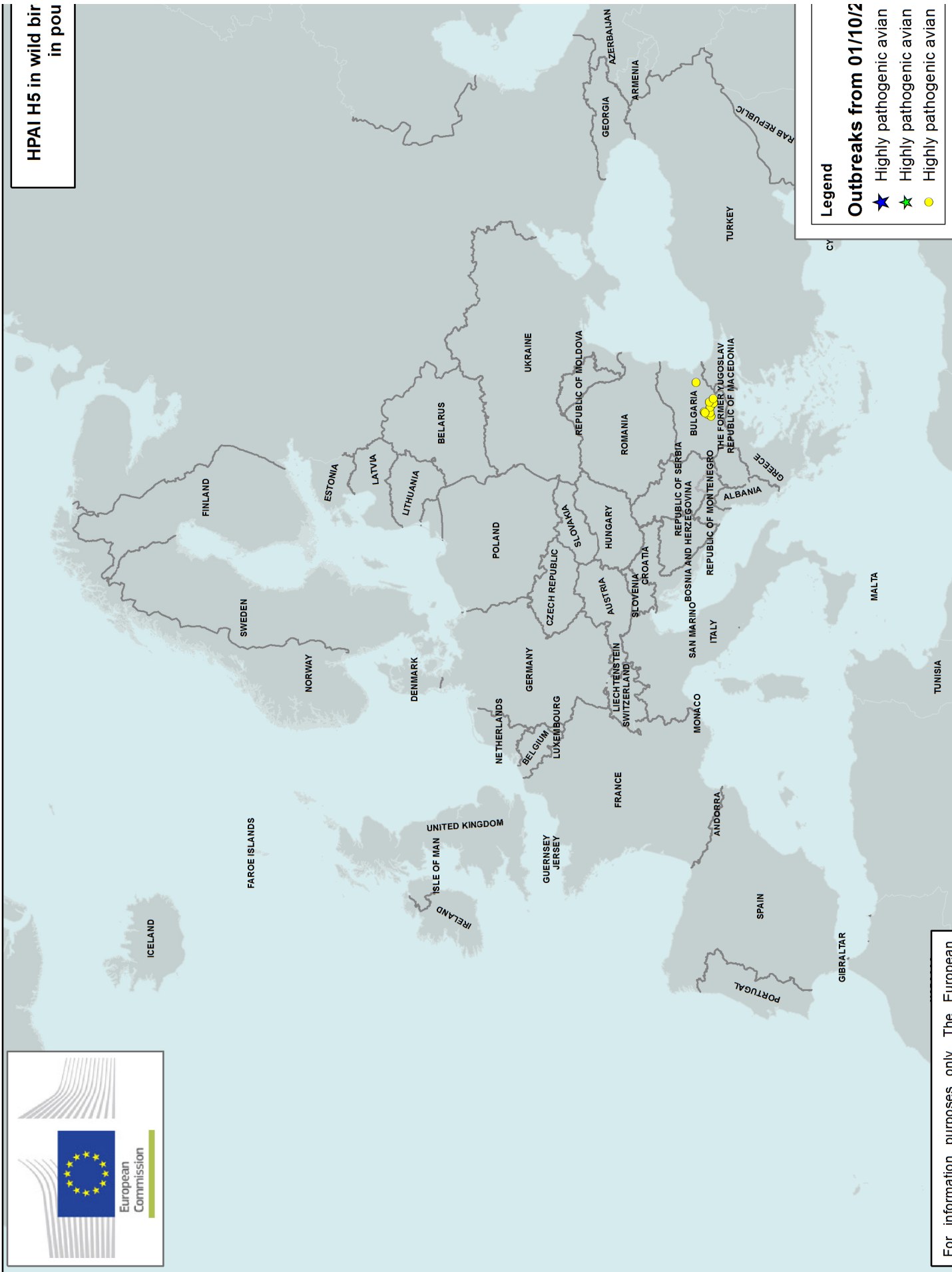
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**HPAI H5 in wild bir
in pou**



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HPAI H5 in wild bir in pou



Legend

Outbreaks from 01/10/12

- ★ Highly pathogenic avian
- ★ Highly pathogenic avian
- Highly pathogenic avian

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HPAI in poultry, captive birds & wild birds

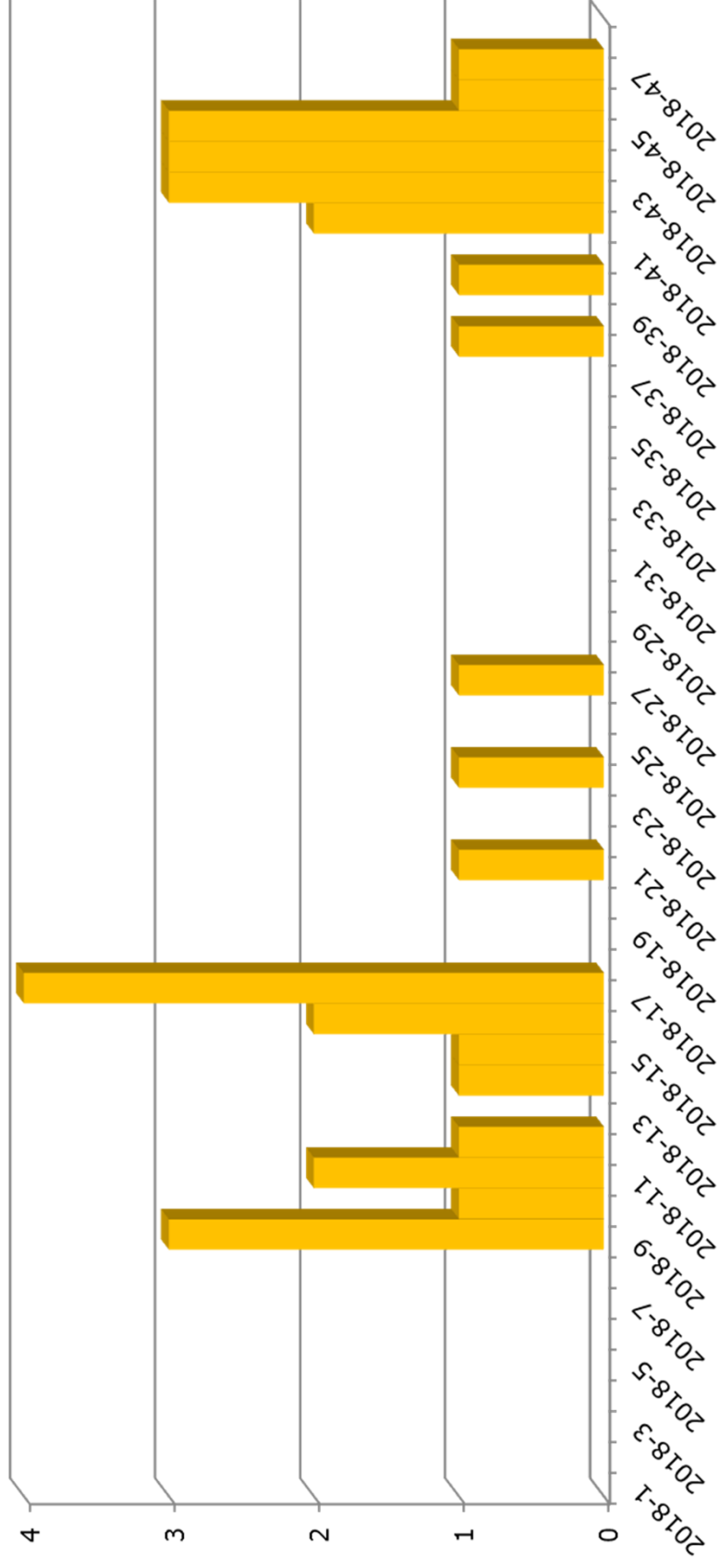
1/10/2016 - 30/11/2018

	2016-2017			2018		
	No. Member States	No. outbreaks	HPAI subtypes	No. Member States	No outbreaks	HPAI subtypes
Poultry	18	1211	H5N8 (H5N5) (1x H5N6)	4	33	H5N8 : IT (3), BG(27) H5N6 : NL (2), DE (1) (last 22/11-BG)
Captive birds	14	63	H5N8 (H5N6)	3	4	H5N6 : NL (1), SE(1), DE(2) (last 01/09 DE)
Wild birds	24	3065	H5N8 (H5N5) > 04/2017 H5N6	8	168	H5N6 SK, <u>DK</u> , FI, SE, UK, IE, NL, DE (last 25/09 DK)



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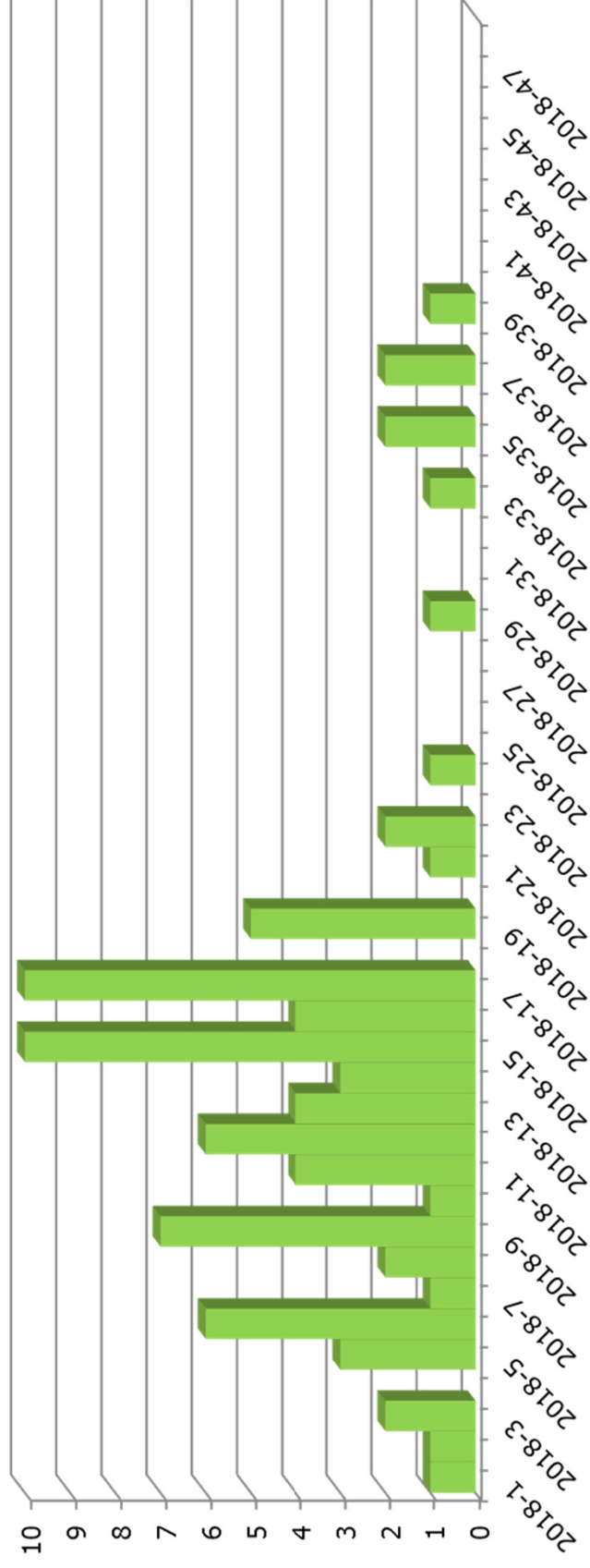
Weekly epidemic curve for HPAI H5 outbreaks in poultry reported via ADNS (01/01- 30/11/2018)



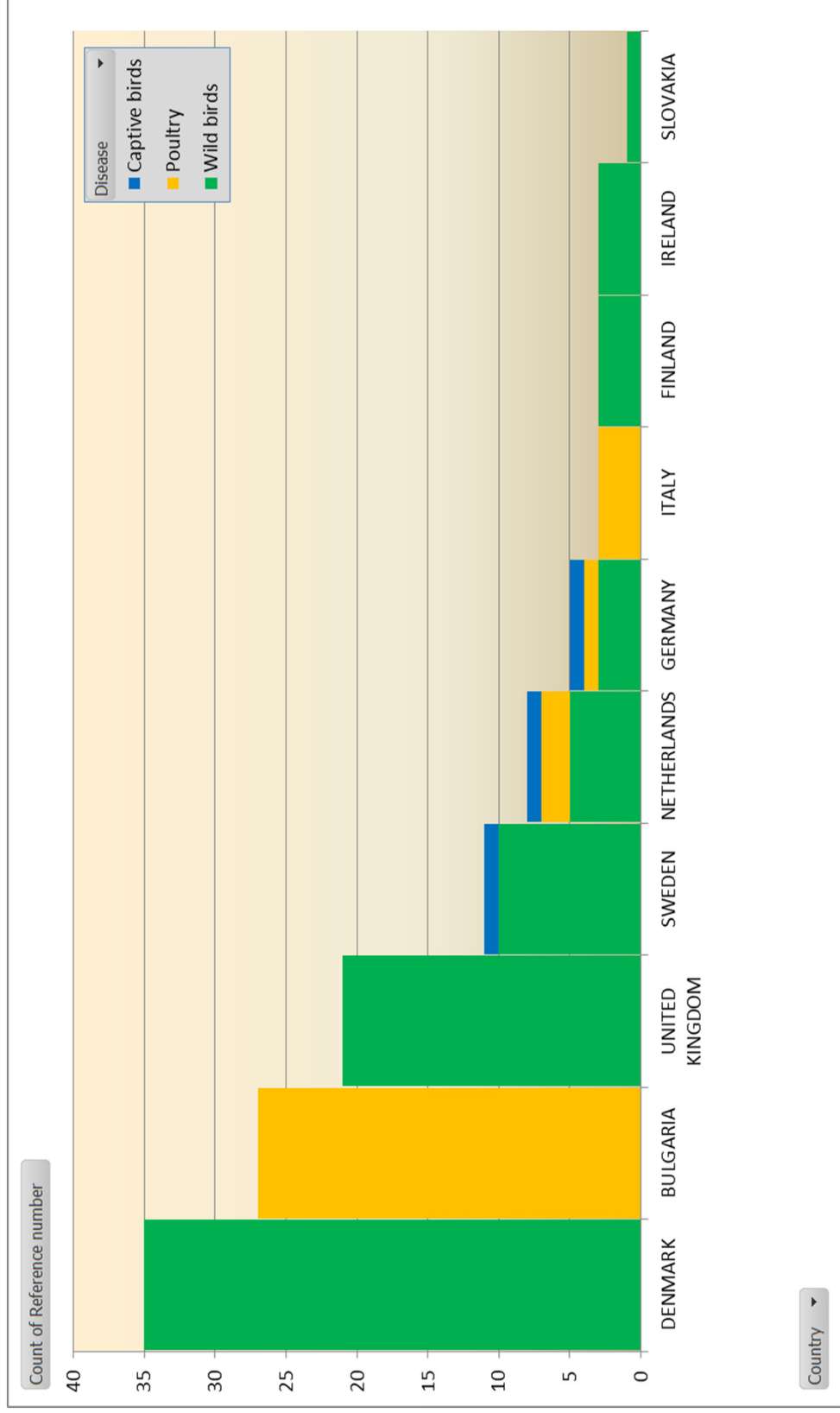


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Weekly epidemic curve for HPAI H5 detections in wild birds reported via ADNS (01/01-30/11/2018)



Number of HPAI H5 outbreaks in poultry, captive and detections in wild birds notified by ADNS





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Current situation in poultry

- ***Since end March no outbreaks in the EU in poultry, except for Bulgaria***
- 22/11: Last outbreak in Bulgaria in a small rural holding (50 heads) in Yambol region
- 15/11: previous outbreak in duck farm (~2000 heads) in Plovdiv region that was heavily affected in 2016/17
- all outbreaks in **Bulgaria** and the three outbreaks in **Italy** until March 2018 were caused by the HPAI **subtype H5N8**
- No virus detection in wild birds in BG and IT



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HPAI H5 in wild birds

- **All findings during 2018 have been HPAI H5N6**
- In contrast to 2016/17, H5N6 HPAI wild bird incidents in 2017/18 have been characterised by a number of mass mortality events in early 2018, followed by a large number of detections made in birds of prey, principally **white-tailed eagles** (*Haliaeetus albicilla*) and **common buzzards** (*Buteo buteo*).
- Findings throughout the summer period until mid September – hypothesis of persistence in non migratory bird reservoir (swan, mallard?) temperature related, immunological factors?



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Commission Decision on **risk mitigation and reinforced biosecurity measures and early detection systems** in relation to the **risks posed by wild birds** for the transmission of highly pathogenic avian influenza (HPAI) viruses to poultry (EU) 2018/1136

- Suitability of measures laid down in previous Decision(EU) 2017/263 confirmed and enlarged based EFSA's scientific opinion 2017
- Member States have to **identify "high risk areas"** (**HRA**) where poultry holdings are at increased risk for HPAI infection based on **risk factors**



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Risk factors for introduction of HPAI viruses into poultry holdings

- (a) location in **areas through which migratory birds are travelling** in particular from breeding grounds in the north-east and east;
- (b) location close to **wet areas** with a **high density of migratory water birds**;
- (d) with **poultry kept in open-air holdings**, where contact between wild birds and poultry cannot be sufficiently controlled;
- (e) **current and past detections of HPAI** viruses in poultry, other captive birds and wild birds.



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Risk factors for spread of HPAI viruses between poultry holdings after virus entry

- a) holdings in an area with a **high density of poultry** in particular those keeping ducks and geese and other poultry with open air access;
- b) **intensity of movements** of vehicles transporting poultry and of persons between holdings.



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Risk mitigation measures

Depending on the epidemiological situation Member States shall prohibit in HRAs:

- **keeping ducks and geese together with other poultry;**
- **keeping poultry in open air, unless protected against contact** with wild birds with nets, roofs, horizontal fabrics or other means or they are supplied with feed and water indoors or under a shelter preventing access of wild birds;
- **use of outdoor water** reservoirs for poultry;
- **use of surface water for watering poultry** from reservoirs accessible by wild birds



Further risk mitigation measures

Member States shall prohibit:

- gatherings of birds at **markets, shows and exhibitions;**
- **certain hunting activities** such as use of decoys or release of game birds

Member States may grant derogations from prohibitions based on risk assessment and alternative risk mitigation measures.



Maintenance and review of measures in HRAs

taking into account:

- **development of the disease situation** in wild birds and poultry in the EU and third countries;
- **HPAI virus subtype(s)**, virus evolution and the potential relevance to human health;
- EFSA/international/national risk assessments



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Further important tools

1. **Early detection systems in poultry flocks:**

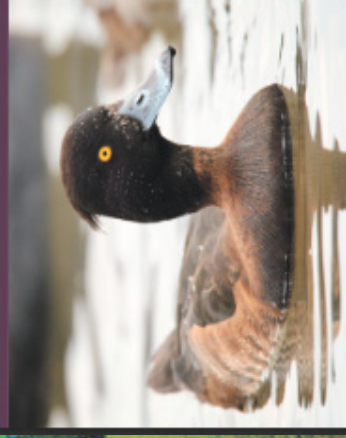
Rapid reporting by owners to the competent authority of change in production data (egg drop, increased mortality..)

2. **Increased wild bird surveillance**

Temporary measures in the vicinity of **HPAI cases in wild birds**

3. **Awareness raising and training** of stakeholders including those involved in wildlife activities

Annual surveillance reports for avian influenza surveillance in poultry and wild birds



Annual Report



Animal &
Plant Health
Agency

on surveillance
for avian influenza in
poultry and in wild birds in
Member States of the
European Union
in 2016

Health and
Food Safety

Annual Report



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DG Health and Food Safety: Avian influenza
https://ec.europa.eu/food/animals/animal-diseases/control-measures/avian-influenza_en

Standing Committee of Plants, Animals, Food and Feed (PAFF) meetings, presentations and summary reports:
https://ec.europa.eu/food/animals/health/regulatory_committee/presentations_en

EFSA: Scientific opinion on AI and overview reports
<http://www.efsa.europa.eu/en/press/news/171016>

ECDC: European Center for Disease Control and Prevention:
<https://ecdc.europa.eu/en/avian-influenza-humans>



Thank you for your attention!