

Update on avian influenza

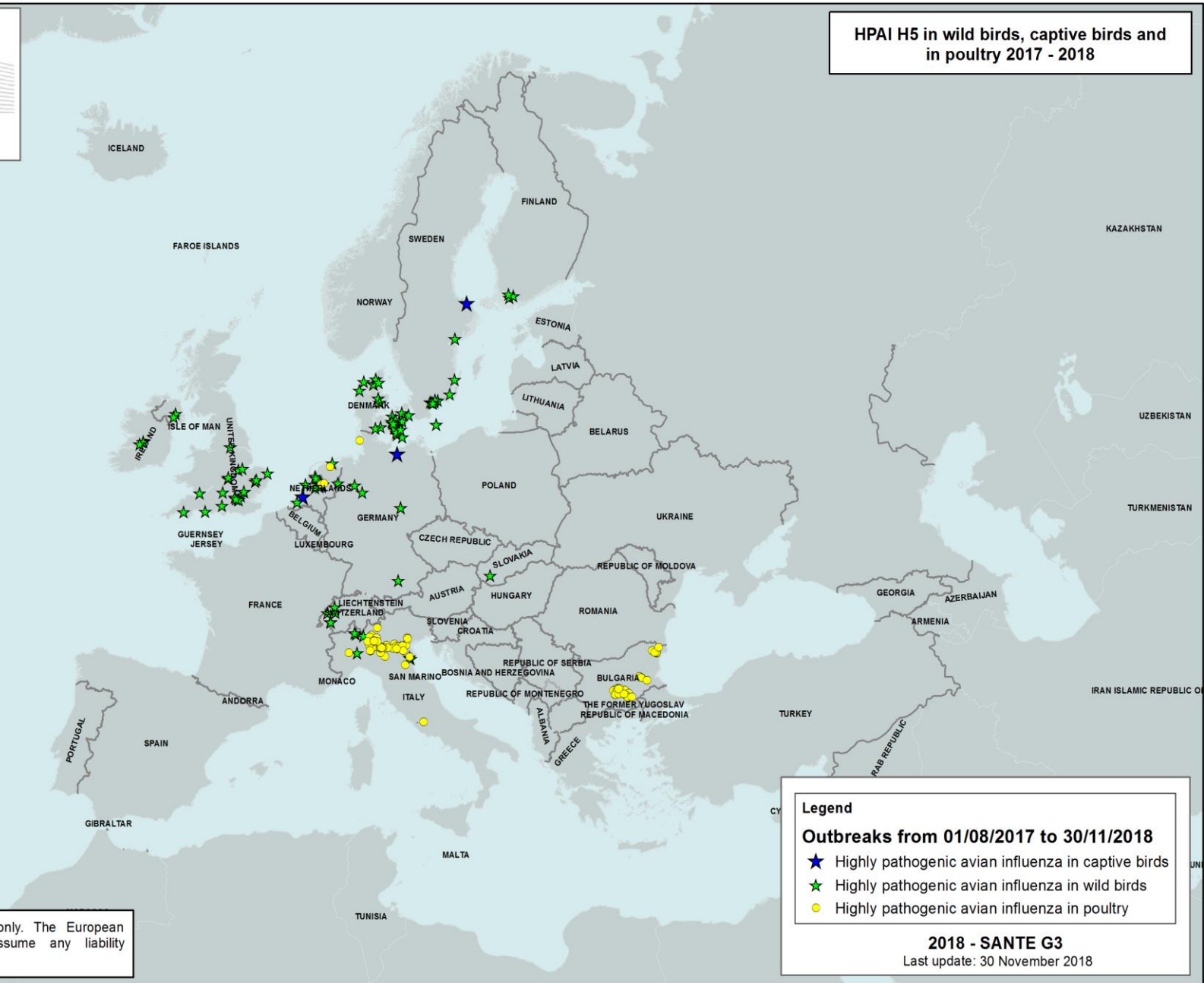
CDG – poultry and eggs
14 December 2018

DG SANTE – Unit G3

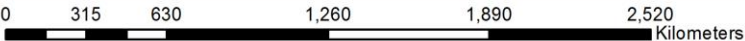
Directorate-General, Health and Food Safety
Official controls and eradication of diseases in animals



HPAI H5 in wild birds, captive birds and
in poultry 2017 - 2018

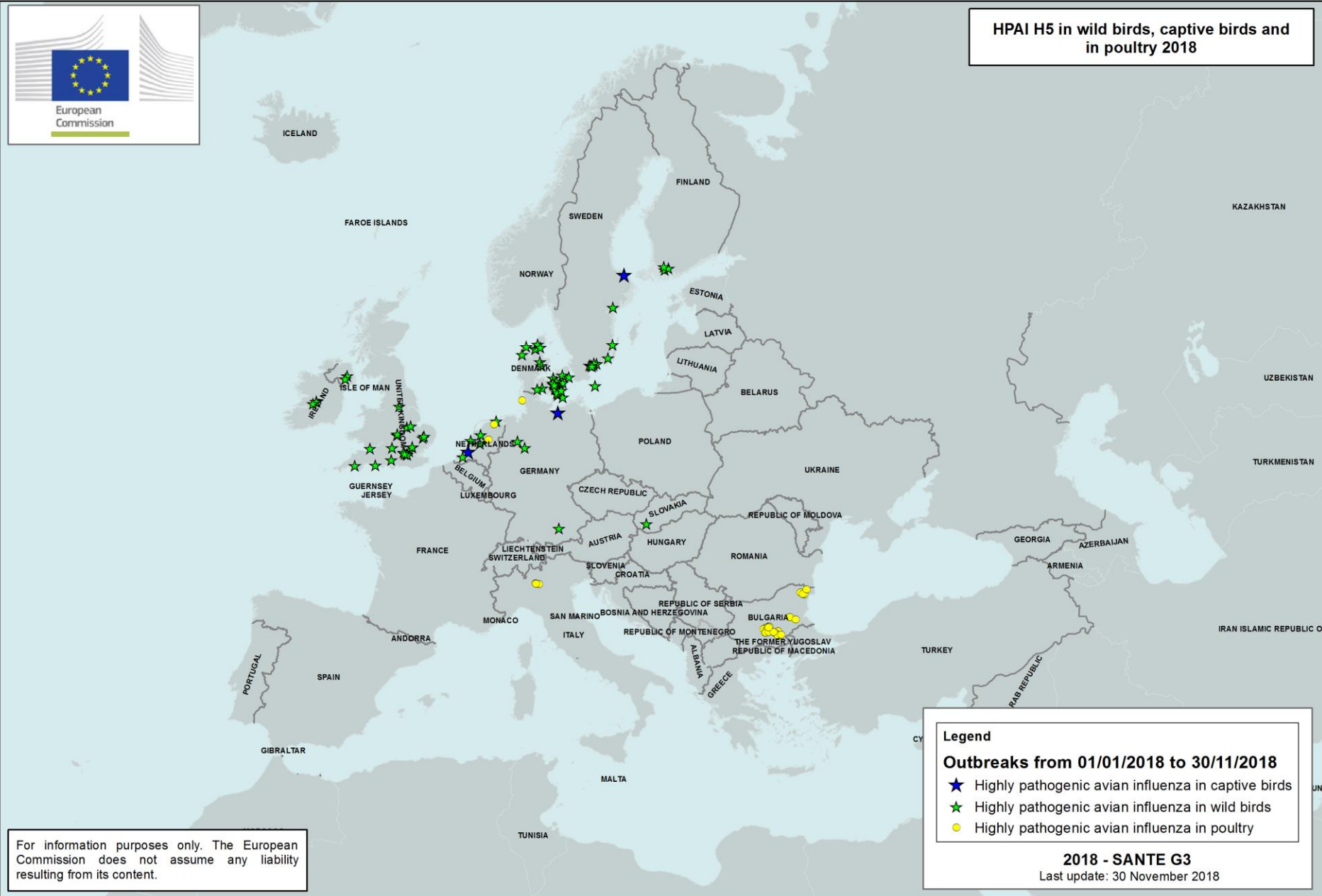


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HPAI H5 in wild birds, captive birds and in poultry 2018



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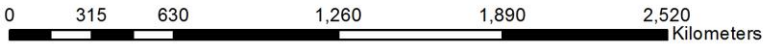
Legend

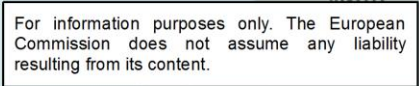
Outbreaks from 01/01/2018 to 30/11/2018

- ★ Highly pathogenic avian influenza in captive birds
- ★ Highly pathogenic avian influenza in wild birds
- Highly pathogenic avian influenza in poultry

2018 - SANTE G3

Last update: 30 November 2018





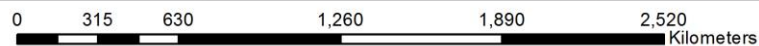
Legend

Outbreaks from 01/10/2018 to 30/11/2018

- ★ Highly pathogenic avian influenza in captive birds
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2018 - SANTE G3

Last update: 30 November 2018

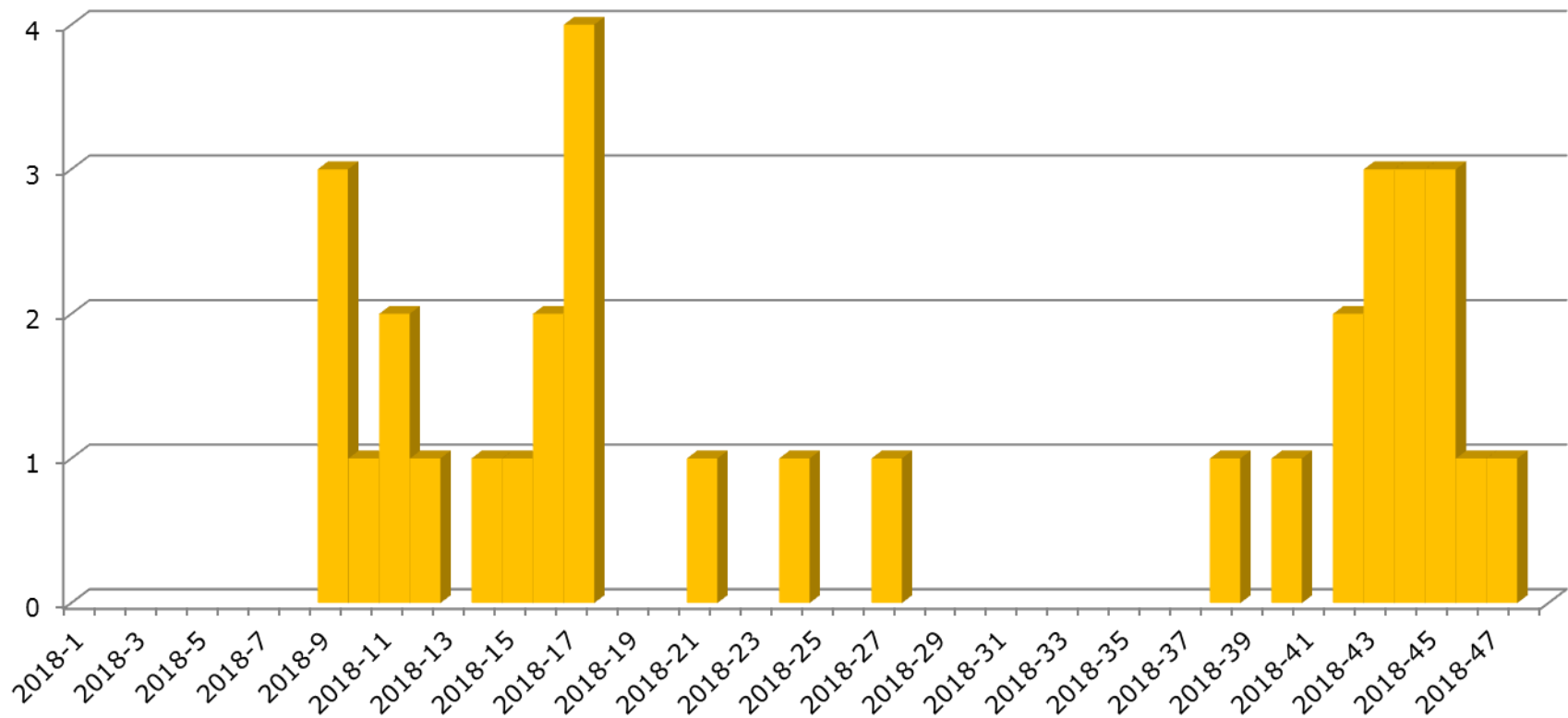


HPAI in poultry, captive birds & wild birds

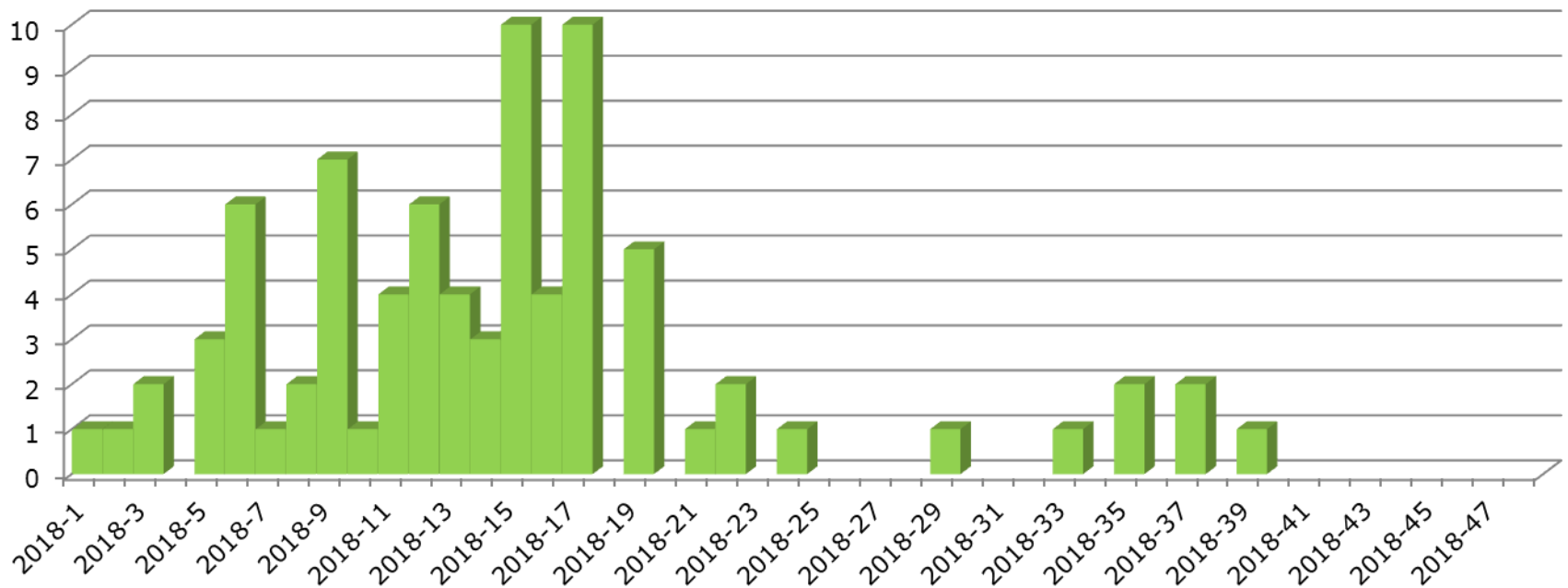
1/10/2016 - 12/12/2018

	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)

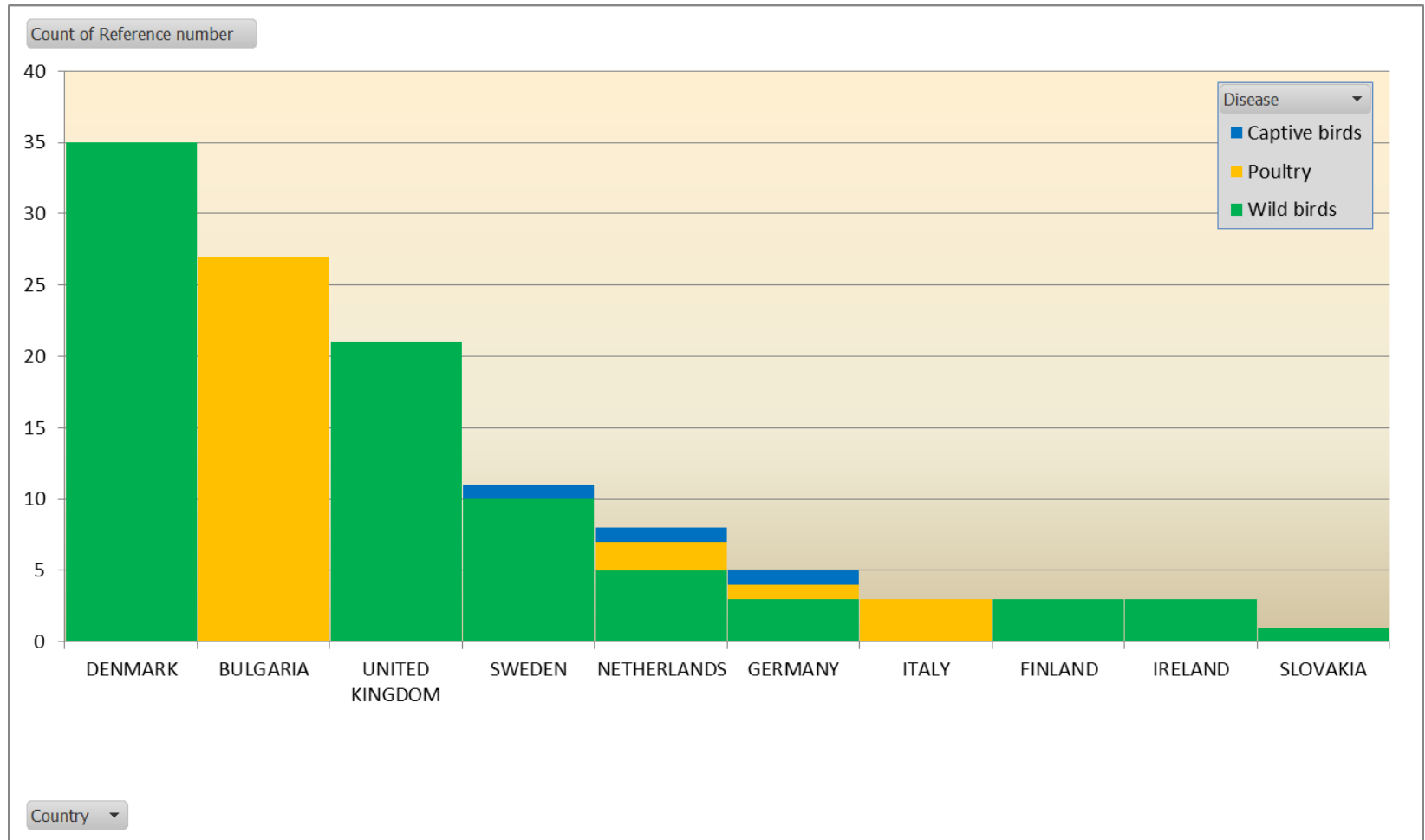
Weekly epidemic curve for HPAI H5 outbreaks in poultry reported via ADNS (01/01- 12/12/2018)



Weekly epidemic curve for HPAI H5 detections in wild birds reported via ADNS (01/01-12/12/2018)



Number of HPAI H5 outbreaks in poultry, captive and detections in wild birds notified by ADNS (01/01-12/12/2018)





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Current situation in poultry in the EU

- *Since end March no outbreaks in the EU in poultry, except for Bulgaria*
- 22/11: Last outbreak in BG in small holding (50 heads) in Yambol region – so far no further spread
- Last area restrictions foreseen to be lifted by 20/12/2018
- Prolonged period for restocking
- Outbreaks mainly in Plovdiv, Haskovo and Stara Zagora regions, heavily affected in 2016/17
- all outbreaks in **BG** and the three outbreaks in **Italy** (until 03/2018) were caused by the HPAI **subtype H5N8**
- No virus detection in wild birds in BG and IT during 2018



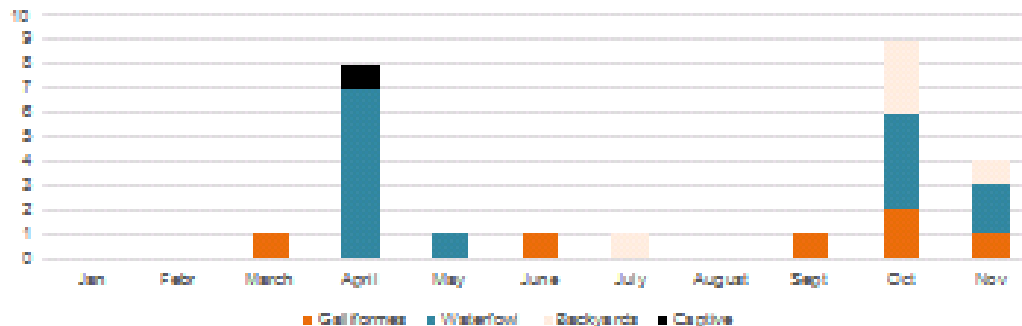
REPUBLIC OF BULGARIA
MINISTRY OF AGRICULTURE, FOOD AND FORESTRY
BULGARIAN FOOD SAFETY AGENCY

OVERVIEW OF THE HPAI (H5N8) SITUATION (1)

HPAI H5N8 outbreaks, 2018



HPAI H5N8 per poultry category



- 27 H5N8 outbreaks in poultry
- More than 1 037 998 poultry affected
 - 6 in Galliformes – 5 laying hens farms, 1 broiler;
 - 14 in Waterfowl farms (one pekin duck farm)
 - 6 backyard mixed species
 - 1 captive poultry
- 5 regions affected, the same as previous year
- Primary outbreaks only
- Risk period – April and Oct-Nov (peak of outbreak)
- Risk areas – middle part of country
- No wild birds mortality reported in the risk areas

HPAI H5 in wild birds

- **All findings during 2018 have been caused by 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?

EFSA: Number of HPAI outbreaks in third countries by virus subtype (16/08 – 15/11/2018 (n=17))

Region	Country	HPAI A(H5N1)	HPAI A(H5N6)	HPAI A(H5N8)	HPAI A(H5Nx)	All HPAI
		Domestic birds	Domestic birds	Domestic birds	Domestic birds	
Asia	Cambodia	1	-	-	-	1
	Lao People's Democratic Republic	1	-	-	-	1
	China	-	6	-	-	6
	Viet Nam	-	4	-	-	4
Europe	Russia				2	2
Africa	South Africa	-		3	-	3
Total	6 countries	2	10	3	2	17

Avian influenza infections in humans

EFSA/ECDC (08-11/2018)

- Three new human cases due AI **A(H5N6)** in China (strain different from European virus which was circulating in wild birds)
- No new cases of AI **A(H7N9)** - last case reported from China in February 2018
- No new human cases due to AI **A(H5N1)** in 2018 worldwide
- No **HPAI H5N8** ever reported in humans worldwide

Decision (EU) 2018/1136 on risk mitigation, reinforced biosecurity and early detection in relation to risks of HPAI transmission to poultry by wild birds

- Suitability of measures were confirmed and enlarged based **EFSA's scientific opinion 2017**
- Identification of "**high risk areas**" where poultry at increased risk for HPAI infection



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Risk factors for virus introduction and spread

Decision (EU) 2018/1136

- **proximity of holdings to wet areas** where migratory water birds gather;
- poultry kept in **open-air holdings**, where contact between wild birds cannot be sufficiently controlled;
- **high density of poultry holdings** (ducks and geese);
- **intensity of movements** of vehicles transporting poultry and of persons.

Risk mitigation measures

Depending on the epidemiological situation Member States shall prohibit in high risk areas:

- **keeping ducks and geese together with other poultry;**
- **keeping poultry in open air, unless protected with nets, roofs, horizontal fabrics or other means or fed and watered indoors or under a shelter preventing access of wild birds;**
- **Use of surface water** 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** (decoys and release of game birds)

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

Further important tools

- **Early detection systems in poultry flocks:**

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

- **Increased wild bird surveillance**

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

- **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

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>

Last overview report will be published on 21/12/2018.

ECDC: European Center for Disease Control and Prevention:

<https://ecdc.europa.eu/en/avian-influenza-humans>



Thank you for your attention!