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Commission

# Update on avian influenza

**PAFF Meeting  
19 September 2018**

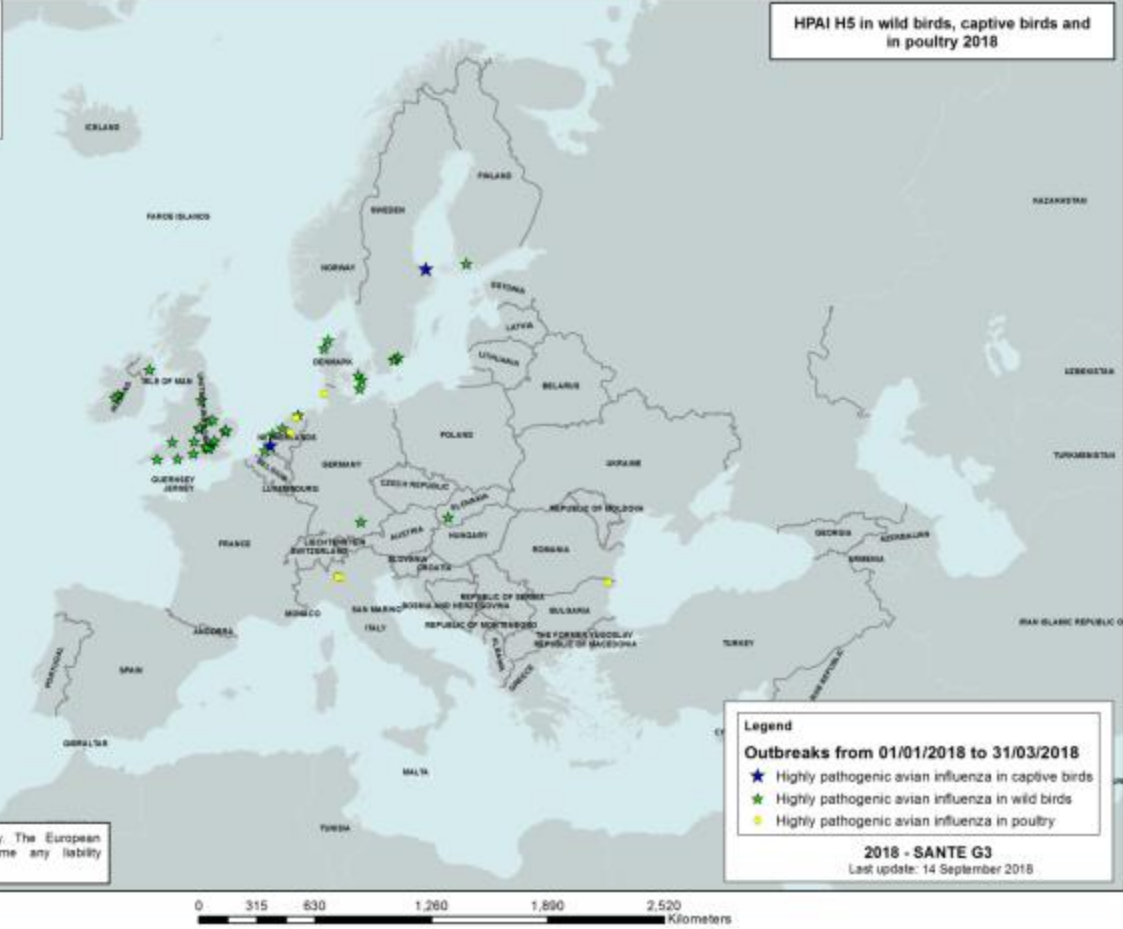
# HPAI in poultry, captive birds & wild birds 01/10/2016 -18/09/2018

MEMBER STATE	WILD BIRDS	POULTRY	CAPTIVE BIRDS
<b>GERMANY</b>	<b>1263</b>	<b>93</b>	<b>16 (+1)</b>
<b>FRANCE</b>	<b>72</b>	<b>486</b>	<b>3</b>
<b>ITALY</b>	<b>24</b>	<b>86</b>	
<b>NETHERLANDS</b>	<b>193(+1)</b>	<b>12</b>	<b>12</b>
<b>BELGIUM</b>	<b>4</b>	<b>2</b>	<b>13</b>
<b>LUXEMBOURG</b>			<b>4</b>
<b>UNITED KINGDOM</b>	<b>140</b>	<b>13</b>	
<b>IRELAND</b>	<b>13</b>		
<b>DENMARK</b>	<b>114(+9)</b>	<b>1</b>	<b>1</b>
<b>GREECE</b>	<b>12</b>	<b>6</b>	
<b>SPAIN</b>	<b>3</b>	<b>10</b>	
<b>PORTUGAL</b>	<b>1</b>		
<b>AUSTRIA</b>	<b>21</b>	<b>2</b>	<b>1</b>
<b>FINLAND</b>	<b>16</b>		<b>1</b>
<b>SWEDEN</b>	<b>51</b>	<b>4</b>	<b>3</b>
<b>CYPRUS</b>	<b>1</b>		
<b>CZECH REPUBLIC</b>	<b>49</b>	<b>38</b>	<b>1</b>
<b>HUNGARY</b>	<b>196</b>	<b>240</b>	<b>5</b>
<b>POLAND</b>	<b>303</b>	<b>65</b>	
<b>SLOVENIA</b>	<b>273</b>		
<b>BULGARIA</b>	<b>20</b>	<b>88(+1)</b>	<b>2</b>
<b>LITHUANIA</b>	<b>13</b>		
<b>ROMANIA</b>	<b>143</b>	<b>45</b>	<b>2</b>
<b>SLOVAKIA</b>	<b>257</b>	<b>9</b>	<b>2</b>
<b>CROATIA</b>	<b>48</b>	<b>11</b>	
<b>Total</b>	<b>3230</b>	<b>1211</b>	<b>66</b>

4 MS (DE, NL, DK, BG)  
 Total number of outbreaks/findings in 2018 (+ incl. those since 01/07 in brackets)

**Only findings in wild birds**

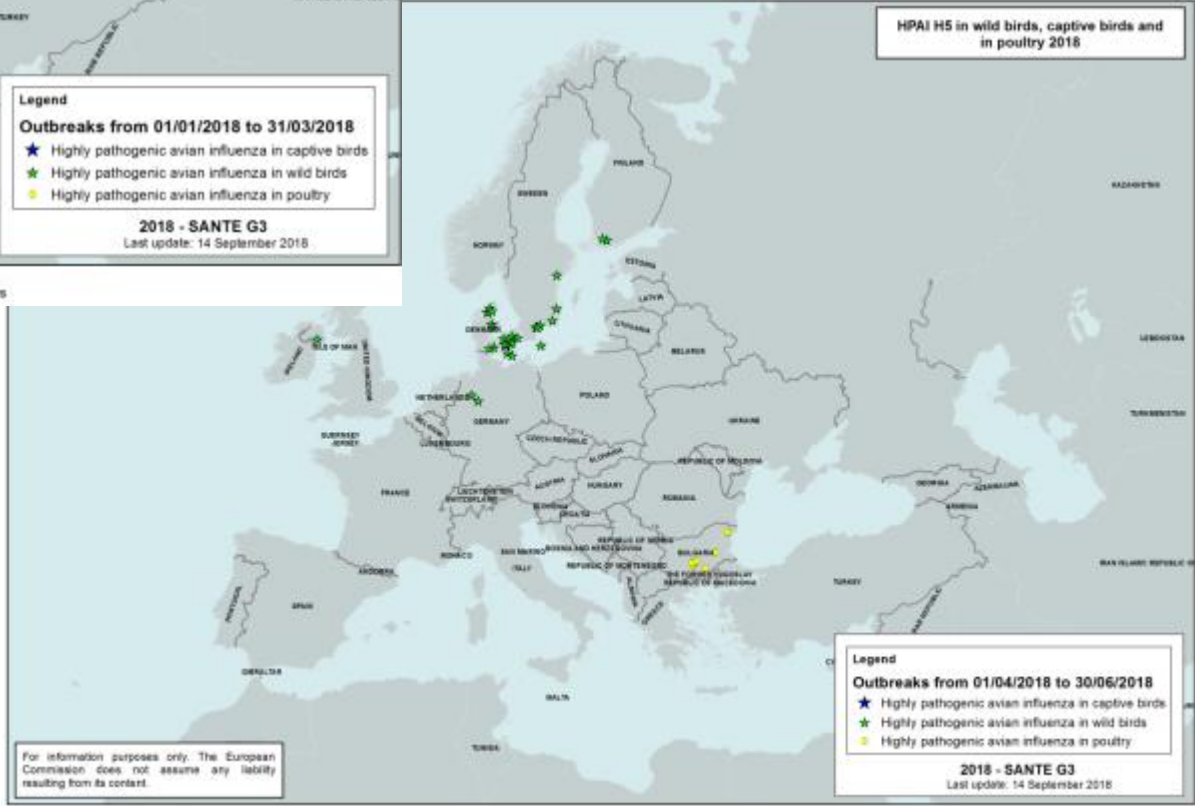
HPAI H5 in wild birds, captive birds and in poultry 2018



**Legend**  
**Outbreaks from 01/01/2018 to 31/03/2018**  
 ★ 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: 14 September 2018

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

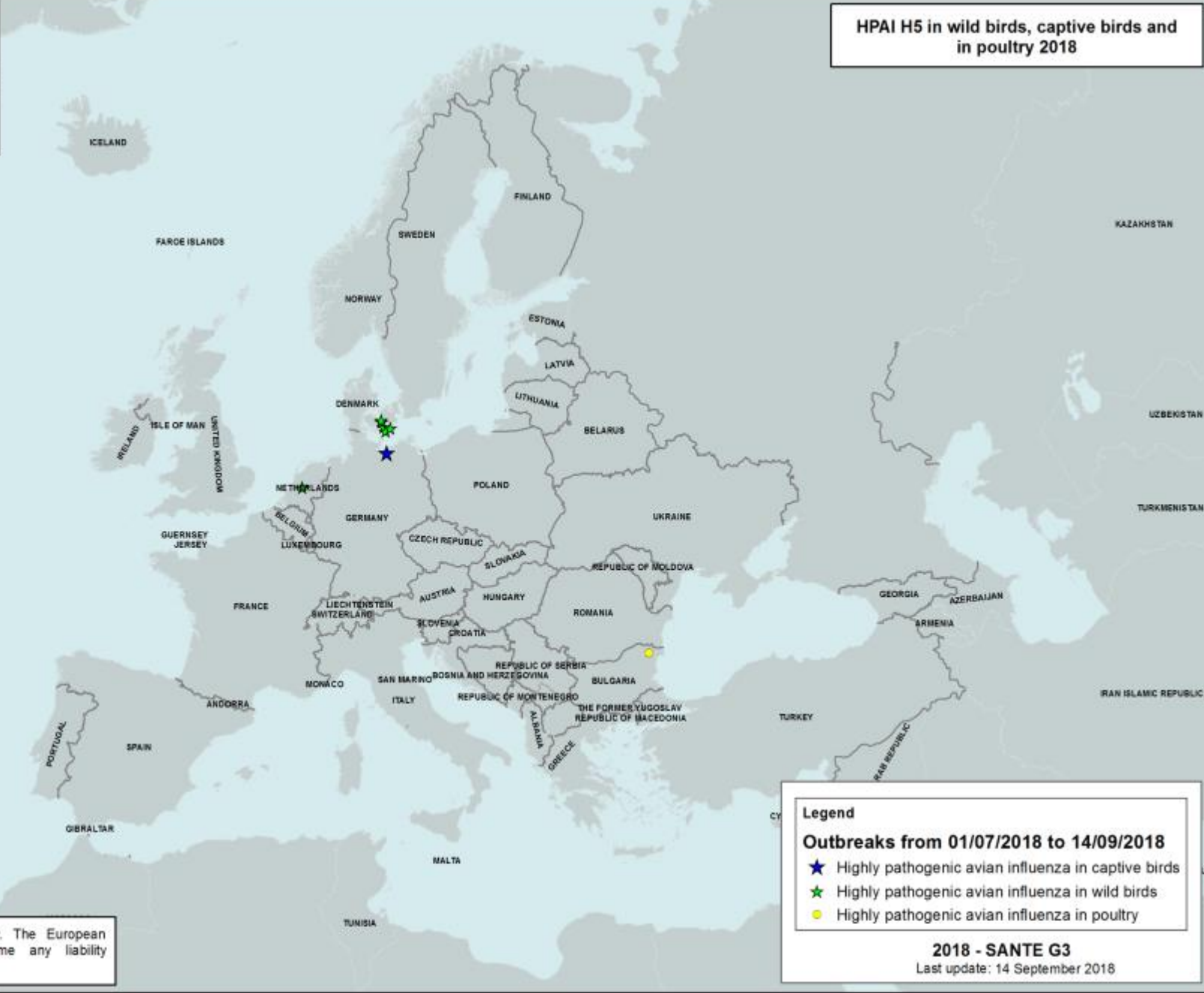


**Legend**  
**Outbreaks from 01/04/2018 to 30/06/2018**  
 ★ Highly pathogenic avian influenza in captive birds  
 ★ Highly pathogenic avian influenza in wild birds  
 ★ Highly pathogenic avian influenza in poultry  
**2018 - SANTE G3**  
 Last update: 14 September 2018

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# H5N1 in wild birds, captive birds and in poultry 2018



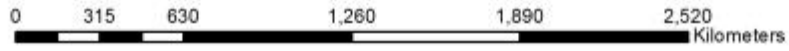
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**Legend**

**Outbreaks from 01/07/2018 to 14/09/2018**

- ★ 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: 14 September 2018



# HPAI in poultry, captive birds & wild birds

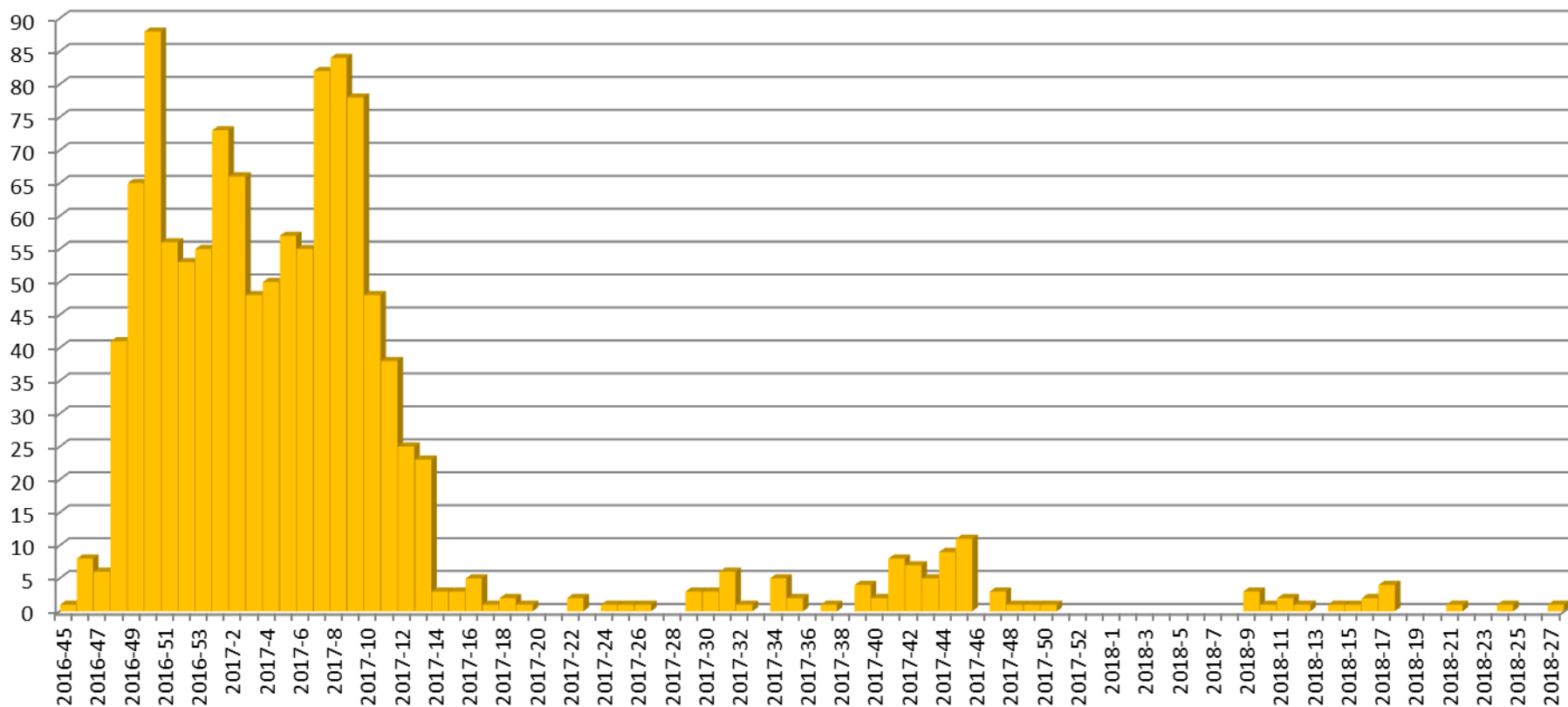
## 1/10/2016 - 18/09/2018

	2016-2017			2018		
	No. Member States	No. outbreaks	HPAI subtypes	No. Member States	No outbreaks	HPAI subtypes
<b>Poultry</b>	18	1211	H5N8 (H5N5) (1x H5N6)	4	18	H5N8: IT (3), BG(12) H5N6: NL (2), DE (1) (last 06/07-BG)
<b>Captive birds</b>	14	63	H5N8 (H5N6)	3	4	H5N6: NL (1), SE(1), DE(2) (last 01/09 DE)
<b>Wild birds</b>	24	3065	H5N8 (H5N5) > 04/2017 H5N6	8	155	H5N6 SK, DK, FI, SE, UK, IE, NL, DE



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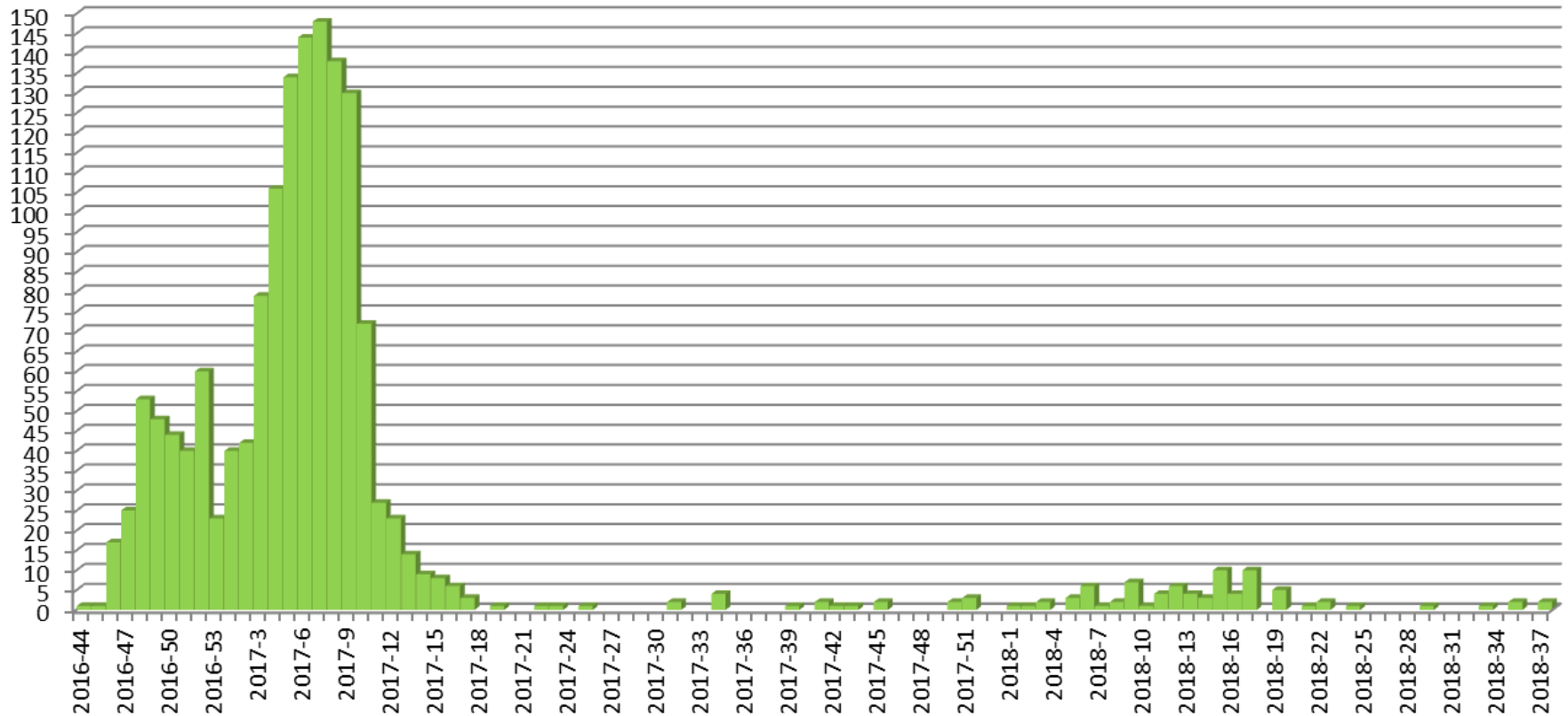
## Weekly epidemic curve for HPAI H5 outbreaks in poultry reported via ADNS (01/10/2016 - 14/09/2018)





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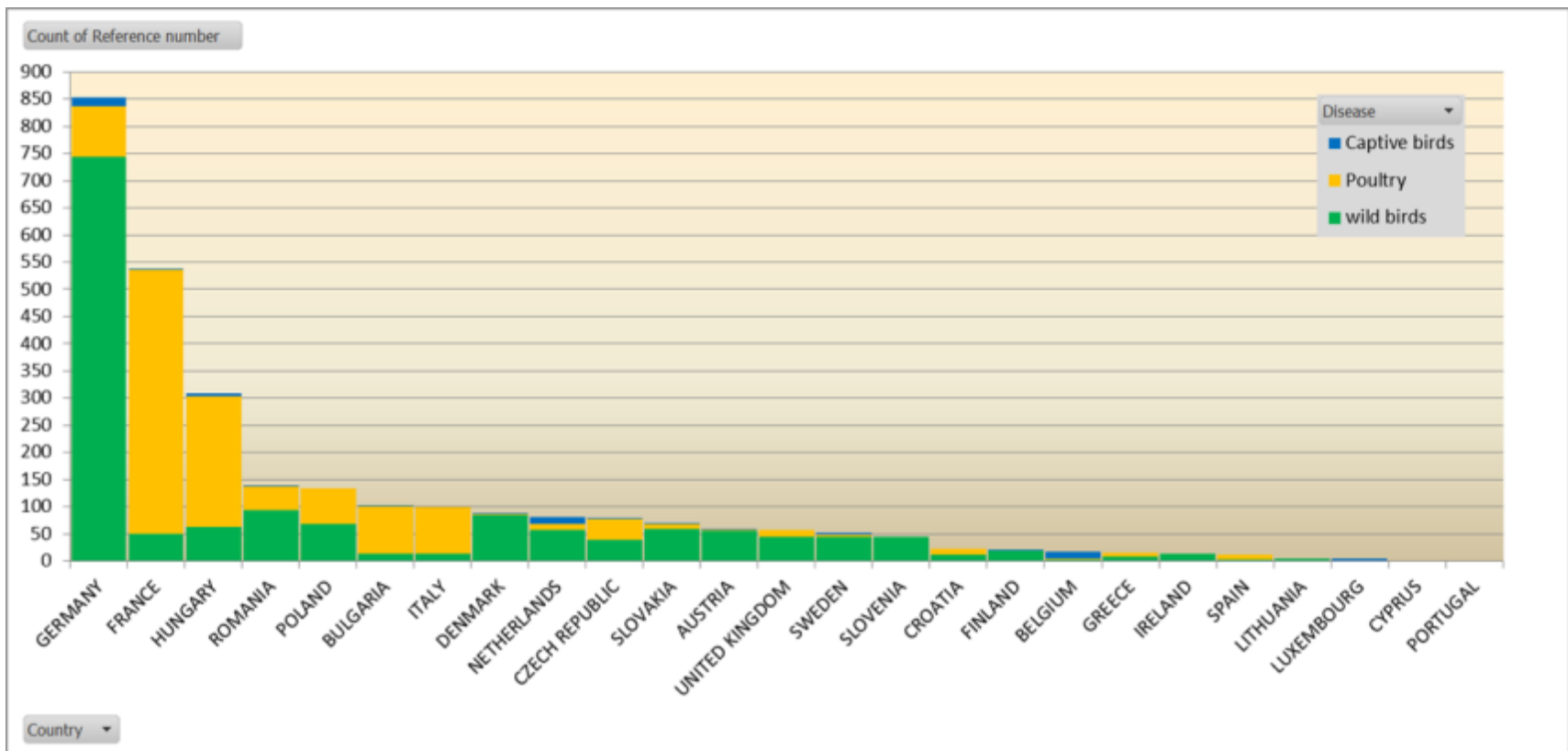
## Weekly epidemic curve for HPAI H5 findings in wild birds reported via ADNS (01/10/2016-14/09/2018)





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## Number of outbreaks in poultry, captive birds and detections in wild birds per Member State reported by ADNS (01/10/2016 - 14/09/2018)

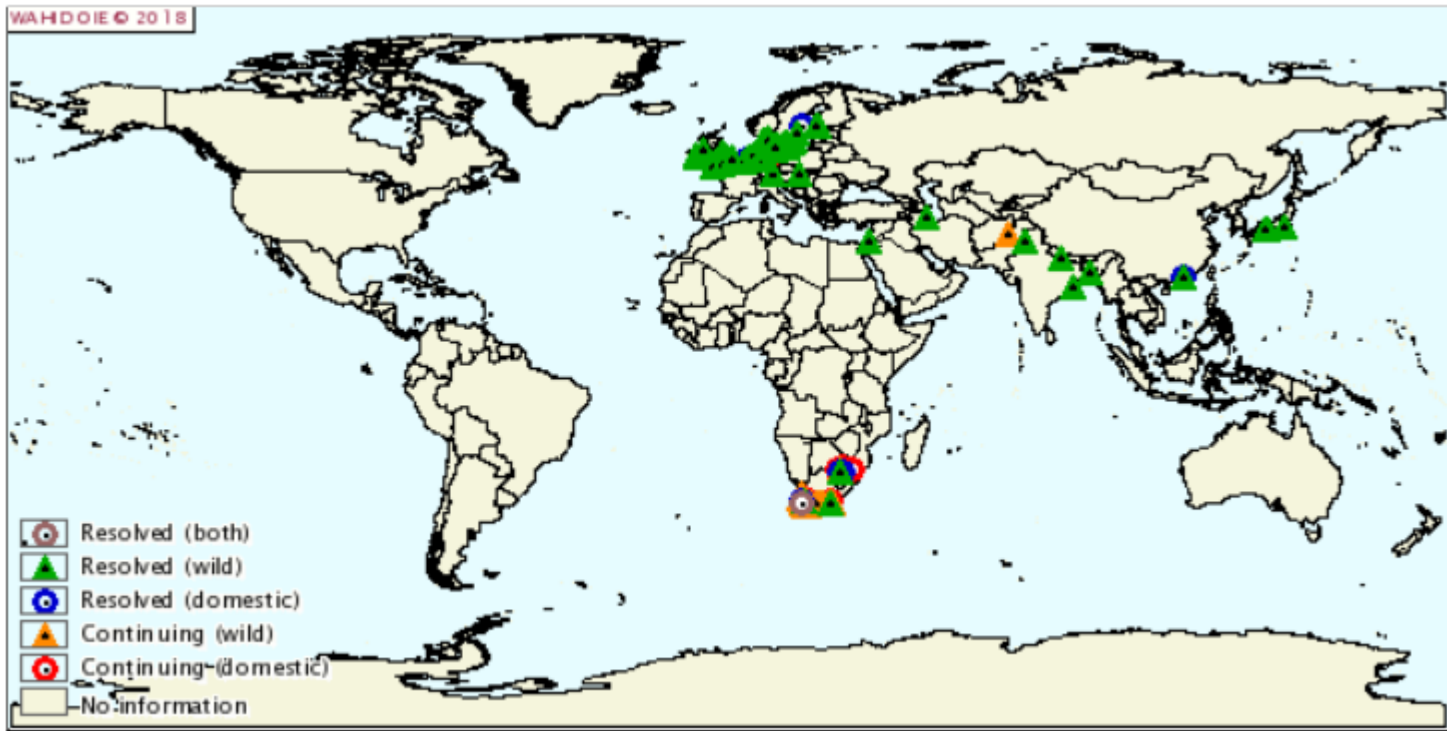




## Wild birds - HPAI H5N6

- All findings in wild birds 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*).
- Persistence through the summer period – persistence in certain bird populations? Non migratory birds (swan, mallard?, temperature related)

# HPAI outbreaks worldwide 01/01-18/09 2018



## Non exhaustive:

**H5N1:** Bangladesh, India, China, Cambodia, Malaysia, Nepal, Ivory coast, Nigeria

**H5N8:** Congo, Iraq, India, Nigeria, South Africa, Taiwan

**Russia** (~80 outbreaks mainly backyards +1 HP **H5N2** in large commercial farm; so far no wild bird involvement reported)

**H5N6:** Philippines (1st outbreak), Taiwan, China, S.Korea, Japan

Increased number of circulating HPAI subtypes:

< 2012: 4 > 2012: 12 (7 in Europe)



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## ***DG Health and Food Safety: Avian influenza***

***[https://ec.europa.eu/food/animals/animal-diseases/control-measures/avian-influenza\\_en](https://ec.europa.eu/food/animals/animal-diseases/control-measures/avian-influenza_en)***

- ***Recent developments and maps***
- ***Urgent protective measures***
- ***Chronology***
- ***Links to EFSA overview reports***
- ***EU AI Surveillance reports***

## ***EFSA: Scientific opinion and third AI overview***

***<http://www.efsa.europa.eu/en/press/news/171016>***

## ***ECDC:***

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

## Further sources of information

### OIE situation updates on AI:

- [http://www.oie.int/fileadmin/Home/eng/Animal Health in the World/docs/pdf/OIE AI situation report/OIE SituationReport AI July 2018.pdf](http://www.oie.int/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/OIE_AI_situation_report/OIE_SituationReport_AI_July_2018.pdf)
- <http://www.oie.int/en/animal-health-in-the-world/update-on-avian-influenza/2017/>

**AI EURL situation updates and phylogenetic trees on FLULABNET:** <https://science.vla.gov.uk/flu-lab-net/>