

Ministry of Agriculture

HPAI in Hungary 2016-2017



Current situation

Earlier occurence:

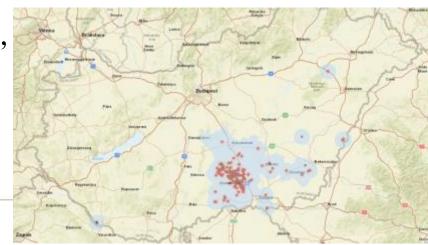
24.02.2015. Füzesgyarmat, Békés county, fattening duck holding

First outbreak:

3. 11. 2016. Tótkomlós, Békés county, turkey holding

Affected counties: Bács-Kiskun, Békés, Nagykun-Szolnok és Hajdú-Bihar

- 226 holdings
- 2,4 million birds





HPAI in wild and captive wild birds

- 1. 26.10.2016. Szeged, Fehér-tó, mute swan
- 2. 24.11.2016. Püspökladány, mallard
- 3. 29.11.2016. Tata, mute swan
- 4. 28.12.2016. Kocs, lesser white-fronted goose
- 5. 04.01.2017. Budapest, Harris's hawk (captive wild bird)
- 6. 05.01.2017. Jászberény, mute swan and white stork (captive wild birds)
- 7. 05.01.2017. Zamárdi, greylag goose
- 8. 06.01.2017. Gyékényes, mute swan
- 9. 12.01.2017. Gyékényes, mute swan

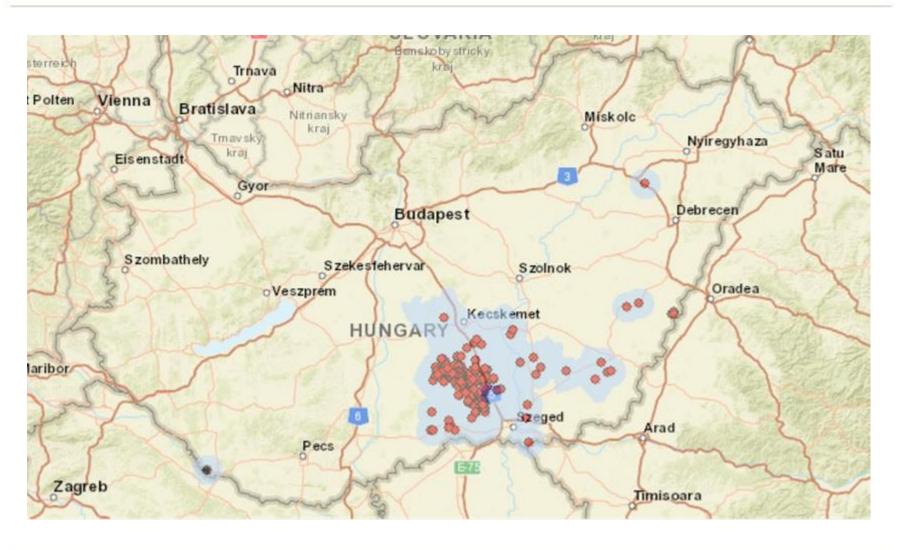
http://airterkep.nebih.gov.hu/aaijo/bjk/bjk_vad.htm





Map of the outbreaks 16. January 2017

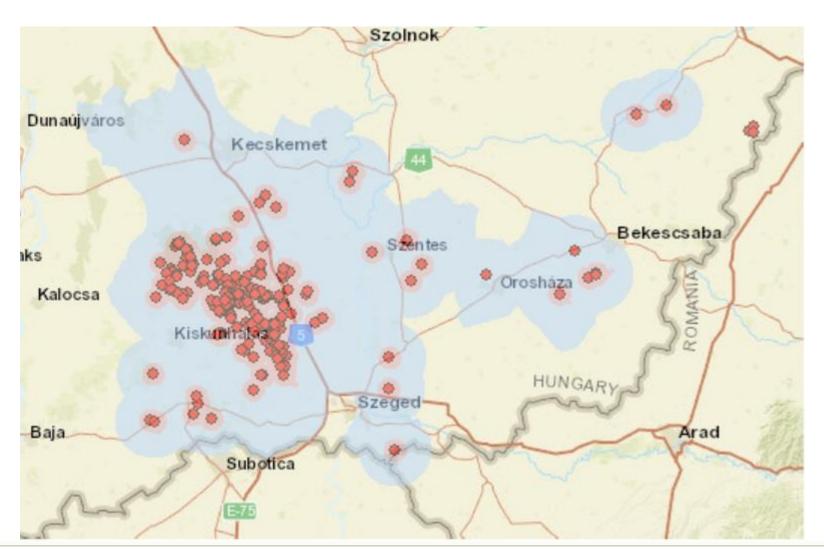




Detailed map of the affected counties



16. January 2017.



http://airterkep.nebih.gov.hu/aaijo/bjk/bjk.htm



Outbreaks in numbers

• Bács-Kiskun 177 holdings / 1 996 000 birds

• Békés 13 holdings / 81 000 birds

Csongrád
28 holdings / 333 000 birds

• Jász-Nagykun 6 holdings / 11 000 birds

• Hajdú-Bihar 2 holdings / 12 500 birds



Outbreaks in numbers

- ducks
- laying hens
- goose
- ducks and geese
- broilers
- turkeys
- backyard

- 124 holdings / 1 703 000 birds
- 2 holdings / 323 000 birds
- 49 holdings / 203 000 birds
- 6 holdings / 92 000 birds
- 1 holdings / 70 000 birds
- 4 holdings / 37 000 birds
- 40 holdings / 7500 birds



Outbreaks in numbers

- 186 large-scale holdings (500 or more birds)
 - average size: 13300 birds
- 40 small scale holdings (500 or less birds)
 - average size: 200 birds
 - in 17 holdings: less than 100 birds



Sympthoms

 Morbidity and mortality have been very diverse





Sympthoms

- In some cases healthy flocks turned out to be positive
 - based on samples taken during preventive killing
 - based on samples taken before taken for slaughter
- Towards the other end of the scale: 100% mortality in backyard flocks
- In ducks: neurological sympthoms are typical
- In geese: bloody diarrhea, neur. sympthoms after 2-3 days
- In hens: shaking of head, diarrhea, rapid death



Control measures

In accordance with Council Directive 2005/94/EC and Diagnostic Manual 2006/437

- restricted zones enlarged to cover high density areas
- culling and safe disposal of the birds
 - method of culling
- movement restrictions
 - derogations
- preventive killing in the areas of 1km radius circle around the outbreaks in high-density territories





Further measures in place

- Orders of the CVO:
 - closed feeding of poultry in the whole territory of Hungary, closed, safe keeping of feed
 - closed keeping of poultry (or use of proper net in the outside areas) in Bács-Kiskun, Békés, Csongrád nad Hajdú-Bihar
- National Disease Control Centre
- Crisis Management Team (human management, logistics)
- awareness: TV, radio, internet
- Map of restricted zones available and searchable online:
- poultry: http://airterkep.nebih.gov.hu/aaijo/bjk/bjk.htm
- captive wild birds: http://airterkep.nebih.gov.hu/aaijo/bjk/bjk_vad.htm



Epidemiological investigation and tracing

- Source: wild birds
 - further spread: identified risks (next slide)
- Tracing
 - No poultry have been moved from the affected holdings to EU Member States or Third Countries
- Experts assisting the Local Disease Control Centers
- Active surveillance cooperation with BirdLife Hungary
- Increased surveillance program for poultry transports dispatched from free parts of the affected countries



Epidemiological investigation and tracing

Identified risks

- Source: wild birds
 - proximity of wetlands, migratory birds flying over the holdings, (visual stains caused by them at the premises)
 - confirmed cases in wild birds
 - positive findings in wild birds worldwide
- Spread between holdings
 - proximity of holdings (occasionally neighbours)
 - integrated production systems
- Technology, feed
- Wind: southeastern



Epidemiological investigation and tracing

- Based on the partial sequences, the virus is H5N8 HPAI with a cleavage site: PLREKRRKR/RGLF,
- forms a new subtype of H5N8
- very probably originating from wild birds from eastern China, on the northern migration route as in case of other AIV clades for ex. 2.3.2
- further to Mongolia and to India (in New Delhi there is already H5N8) and further to Russia
- after that, there was a big jump to Europe, Hungary



CVET mission

19-21. december 2016

Thanks to the mission team for the visit.

Findings and recommendations have been used to enhance the measures.



Thank you for your attention!

