



State
Veterinary
Administration

Highly Pathogenic Avian Influenza in the Czech Republic

PAFF meeting, 11 – 12 February 2021

Highly Pathogenic Avian Influenza (HPAI) in the Czech Republic

Occurrence of HPAI in 2020

➤ Poultry

2 HPAI outbreaks in 2 regions

- 1 HPAI H5N8 outbreak in backyard flock in Vysočina Region
- 1 HPAI H5N8 outbreak in commercial poultry farm in Pardubice Region

Occurrence of HPAI in 2021

➤ Poultry

3 HPAI H5N8 outbreaks in backyard flocks in 3 regions

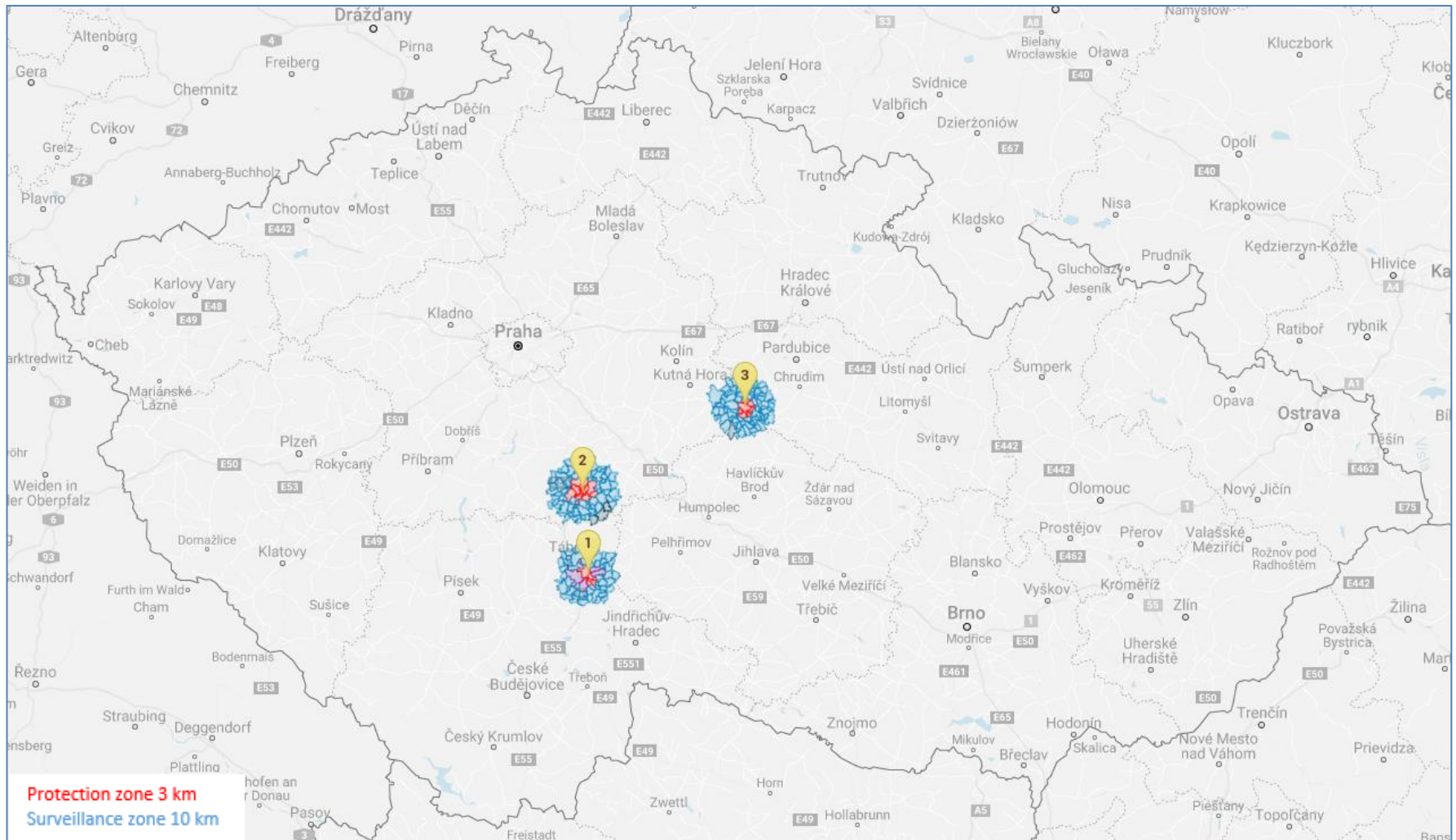
- South Bohemian Region
- Central Bohemian Region
- Pardubice Region

➤ Wild birds

5 HPAI H5N8 cases only in 1 region

- South Bohemian Region

HPAI outbreaks in poultry in 2021



Dlouhá Lhota – South Bohemian Region



Podolí u Jankova – Central Bohemian Region



Ronov nad Doubravou – Pardubice Region

Poultry - outbreaks description

1. outbreak of HPAI of subtype H5N8

- ✓ South Bohemian Region
- ✓ District Tábor
- ✓ Village Dlouhá Lhota - cadastral territory 626406
- ✓ 49°21'22,213"N, 14°46'27,166"E
- ✓ mixed backyard flock (in total 32 birds)

22. 1. 2021 suspicion, 15 poultry died, sampling

– the National reference laboratory for Avian Influenza (NRL) in the State Veterinary Institute Prague confirmed HPAI of subtype H5N8

23. 1. 2021 culling of all remaining poultry (in total 17 birds) on the affected farm – by injection (T61), disposal of carcasses and poultry products, preliminary cleaning and disinfection

2. outbreak of HPAI of subtype H5N8

- ✓ Central Bohemian Region
- ✓ District Benešov
- ✓ Village Podolí u Jankova - cadastral territory 708950
- ✓ 49°37'5,024"N, 14°44'57,689"E
- ✓ mixed backyard flock (in total 53 birds)

2. 2. 2021 suspicion, 32 poultry died, sampling

– the NRL identified avian influenza virus H5

3. 2. 2021 the NRL confirmed HPAI of subtype H5N8

– culling of all remaining poultry (in total 21 birds) on the affected farm – by injection (T61), disposal of carcasses and poultry products, preliminary cleaning and disinfection

3. outbreak of HPAI of subtype H5N8

- ✓ Pardubice Region
- ✓ District Chrudim
- ✓ Village Ronov nad Doubravou - cadastral territory 741141
- ✓ 49°53'2,573"N, 15°32'2,451"E
- ✓ mixed backyard flock (in total 61 birds)

3. 2. 2021 suspicion, 15 poultry died, sampling

– the NRL identified avian influenza virus H5

4. 2. 2021 the NRL confirmed HPAI of subtype H5N8

– culling of all remaining poultry (in total 46 birds) on the affected farm – by injection (T61), disposal of carcasses and poultry products, preliminary cleaning and disinfection

Measures in outbreaks

(in accordance with the Council Directive 2005/94/EC)

Preliminary measures

- Census of susceptible animals
- Biosecurity - to keep birds on their living places
- Ban of all movement of poultry, poultry products, by-products
- Disinfection

Control measures

- Culling and disposal of all remaining poultry on the affected farm
- Disposal of poultry products
- Cleaning and disinfection

Epidemiological investigation – all outbreaks

- Probably source of infection: contact of poultry with wild birds

Measures in protection zones

- Census of all poultry holdings *
 - To keep birds in closed facilities
 - Ban of all movement of poultry, poultry products, by-products
 - Disinfection and biosecurity measures on poultry holdings
 - Poultry health monitoring, changes to be reported to Regional Veterinary Administration (RVA)
 - Ban of poultry and other birds exhibitions and markets
 - Ban of the release of birds for restocking
-
- Official checks of poultry holdings and sampling according to Diagnostic manual

Measures in surveillance zones

- Census of commercial poultry holdings *
- Ban of all movement of poultry and poultry products (exception approved by RVA only)
- Disinfection and biosecurity measures on poultry holdings
- Ban of poultry and other birds exhibitions and markets
- Ban of the release of birds for restocking

Veterinary measures on the whole territory of the Czech Republic

- On 26 January 2021 – issued by the State Veterinary Administration (SVA)
- to control the spread of HPAI

- all gatherings of birds – e.g. fairs, exhibitions, sales etc. are prohibited, pigeon racing, competitions etc.
- commercial holdings – all species of birds to be kept inside
- biosecurity measures
- restriction of poultry movement

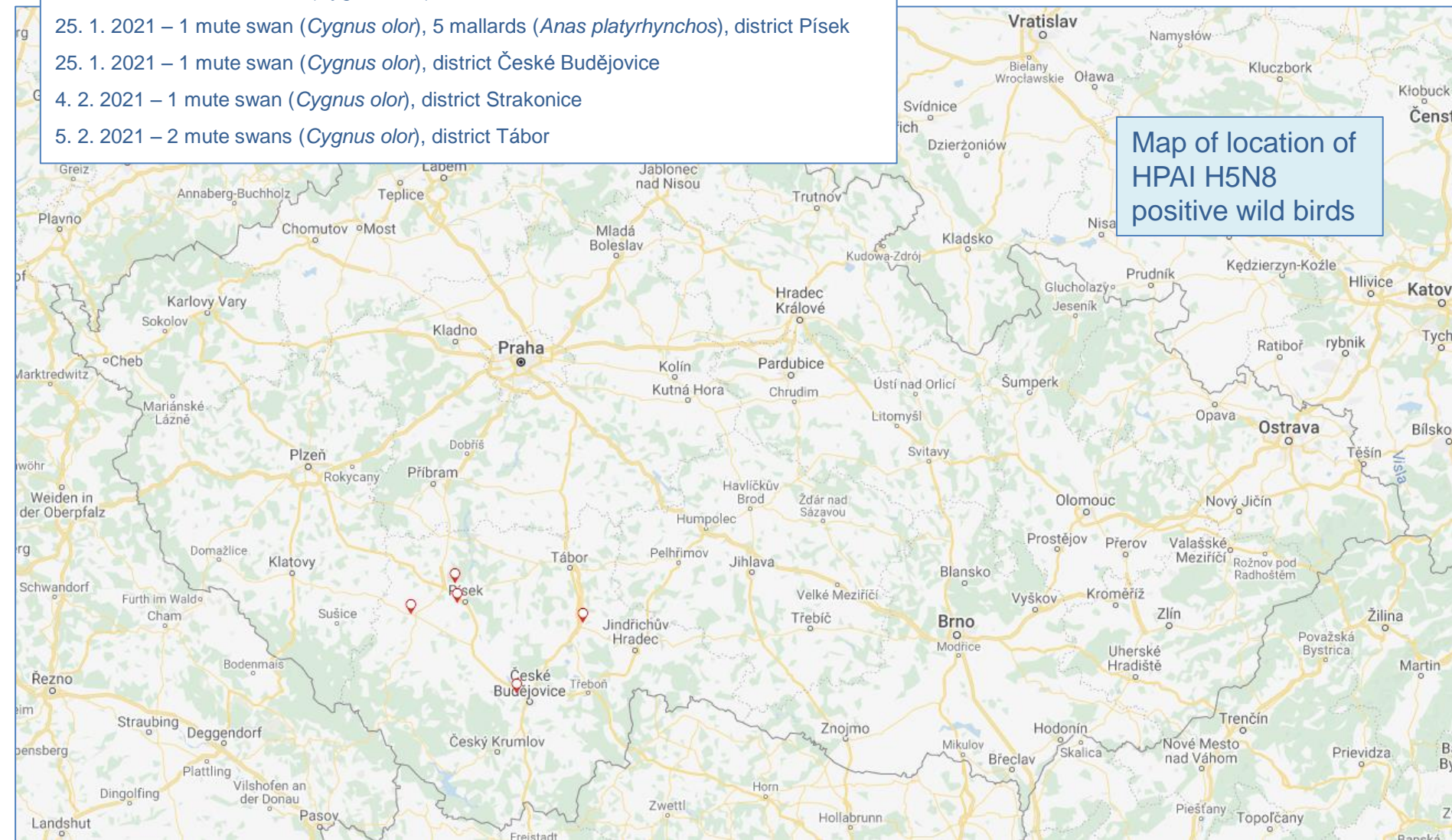
Wild birds - cases description

In total 5 HPAI cases (12 birds) of subtype H5N8 only in the South Bohemian Region

Date of confirmation

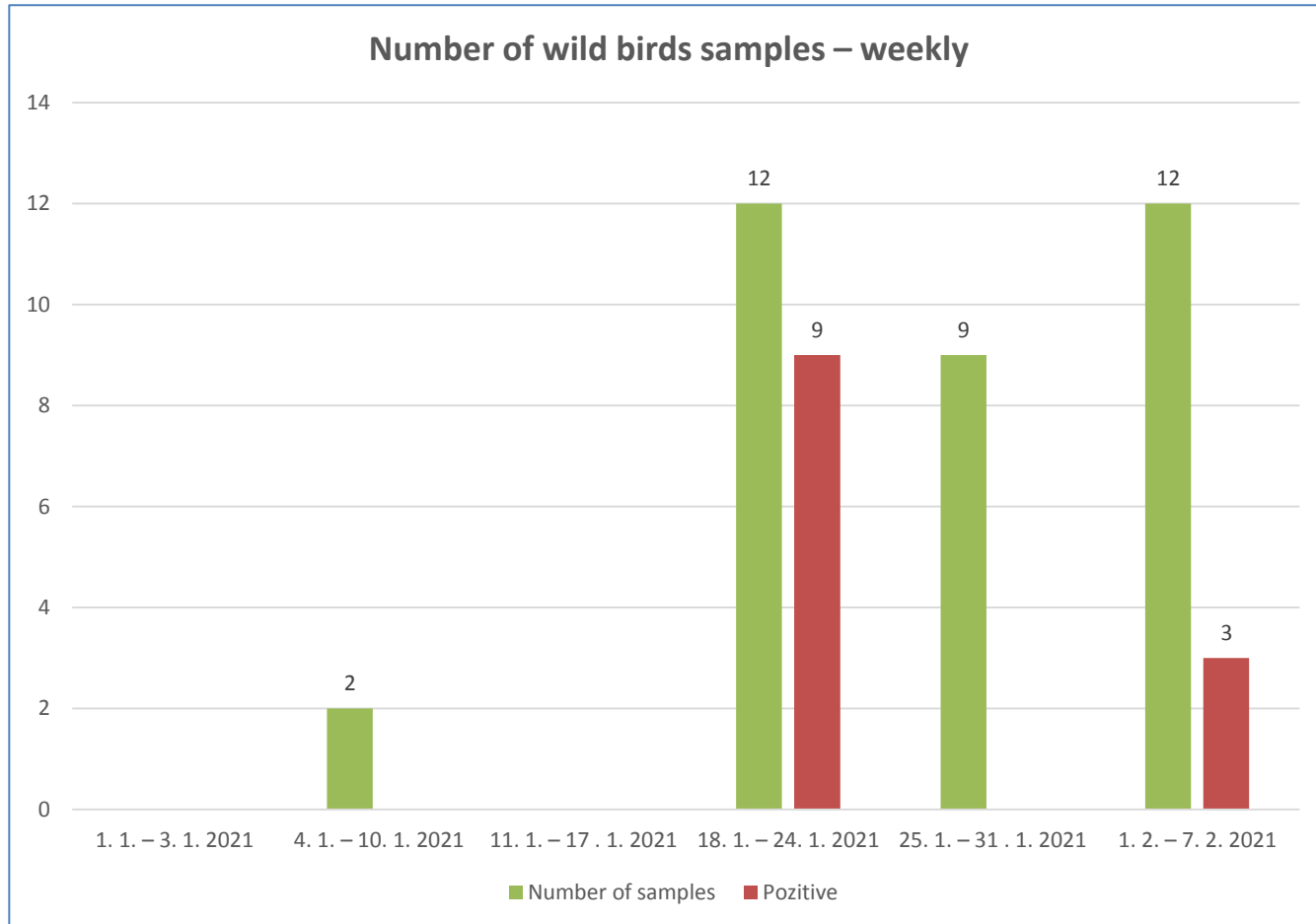
- 21. 1. 2021 – 2 mute swans (*Cygnus olor*), district Písek
- 25. 1. 2021 – 1 mute swan (*Cygnus olor*), 5 mallards (*Anas platyrhynchos*), district Písek
- 25. 1. 2021 – 1 mute swan (*Cygnus olor*), district České Budějovice
- 4. 2. 2021 – 1 mute swan (*Cygnus olor*), district Strakonice
- 5. 2. 2021 – 2 mute swans (*Cygnus olor*), district Tábor

Map of location of
HPAI H5N8
positive wild birds



Number of wild birds samples

- From 1. 1. 2021 to 7. 2. 2021 in total 35 samples of wild birds (swans, mallards, cormorant, herons, seagull) were tested



Prevention of Avian Influenza in the Czech Republic

Early warning system = for farmers with commercial holding is mandatory to record the changes in poultry health:

- ✓ Drop in feed and water intake higher than 20 %,
- ✓ Drop in egg production higher than 5 % for more than two days,
- ✓ Mortality rate higher than 3 % in a week,
- ✓ Any clinical sign or post-mortem lesion suggesting avian influenza.

Surveillance programme in poultry and wild birds (in accordance with the Commission Decision 2010/367/EU)

Poultry

- ✓ active surveillance
- ✓ on the whole territory of the Czech Republic
- ✓ Categories included: *laying hens flocks of Gallus gallus producing table eggs and breeding flocks of Gallus gallus; free range laying hens; turkey breeders; duck breeders; geese breeders; fattening turkeys; fattening ducks; fattening geese; farmed game birds (gallinaceous); farmed game birds (waterfowl)*

Wild birds

- ✓ passive surveillance on sick and found-dead wild birds

**Thank you
for your attention**