

Ministry of Agriculture

Epidemiological situation and the measures regarding highly pathogenic avian influenza in Hungary



Meeting of the Standing Committee of Plants, Animals Food and Feed
16.05.2024.

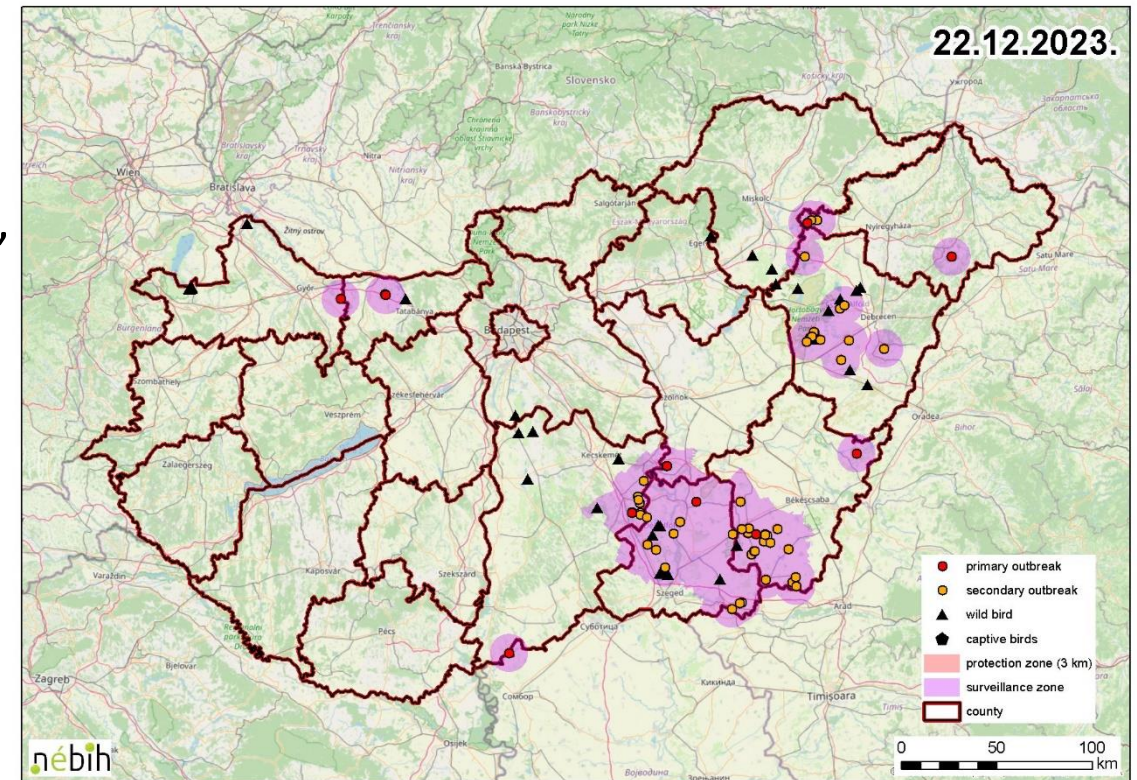


Summary of the last epidemic

4.11.2023-24.1.2024

Poultry

- **10 counties affected**
 - Hajdú-Bihar, Szabolcs-Szatmár-Bereg, Bács-Kiskun, Borsod-Abaúj-Zemplén, Csongrád-Csanád, Jász-Nagykun-Szolnok, Békés, Komárom-Esztergom, Győr-Moson-Sopron, Somogy
- **Number of outbreaks: 76**
 - 16 primary and 60 secondary
 - ducks, geese, turkeys, hens, pheasants, mallards





Summary of the last epidemic

Wild birds

51 wild bird outbreaks (86 wild birds)

- Eurasian teal (*Anas crecca*) (1): 13th October: Hajdú-Bihar county
- Common crane (*Grus grus*) (59): 3rd November-4th January: Hajdú-Bihar, Csongrád-Csanád, Pest, Borsod-Abaúj-Zemplén, Bács-Kiskun, Győr-Moson-Sopron
- Greater white-fronted goose (*Anser albifrons*) (4): 23th November-16th December: Győr-Moson-Sopron, Komárom-Esztergom, Fejér, Hajdú-Bihar
- Great egret (*Ardea alba*) (1): 13th December: Borsod-Abaúj-Zemplén
- Grey heron (*Ardea cinerea*) (1): 16th December: Borsod-Abaúj-Zemplén
- Black-headed gull (*Chroicocephalus ridibundus*) (1): 16th December: Csongrád-Csanád
- Mute swan (*Cygnus olor*) (15): 5th January 15th February: Heves, Győr-Moson-Sopron, Veszprém
- Saker falcon (*Falco cherrug*) (1): 6th January: Heves
- Greylag goose (*Anser anser*) (1): 21th January: Komárom-Esztergom
- Common buzzard (*Buteo buteo*) (2): 24th February: Fejér



Measures

- Stamping out
- Epidemiological investigation
- Enlarged surveillance zone
- Phylogenetic examination
- Wild birds
- Awareness-raising and information-spreading

Segítse a madárinfluenza megfékezését!

A vadmadárvonulások időszakában a madárinfluenza fokozottan veszélyezteti Magyarország szárnyasállományát.



Ne próbálja megetetni
a beteg vadmadarakat!



Ne közelítsen és ne érjen
az elhullott vagy agonizáló szárnyasokhoz!



Ne akarja megmenteni
és ne vigye állatorvoshoz a beteg állatot!



Értesítse a járási főállatorvost,
ha beteg vadmadarat észlel!



Mindig fertőtlenítse
a cipőjét, ruházatát madárles után!



Fokozottan tartsa be
a járványvédelmi előírásokat!



Tudjon meg többet!
portal.nebih.gov.hu/madarinfluenza



Measures

- Transport – whole area of Bács-Kiskun, Csongrád-Csanád and Békés – before movement of waterfowls to slaughterhouse (swab – 72 h, have to wait the result)
- Transport – whole country – before technological movement of waterfowls (swab – 72 h, have to wait the result)
- Closed keeping – high risk counties – from 26 October 2023 – still in force



Measures

	Birds killed (No)	Establishments (No)
Affected	1 510 930	76
Preventive	26 277	24
Total	1 537 207	100



Epidemiological investigation

- Crane migration
- Proximity of holdings
- Spreading within integrations (intermediaries)



Common Cranes at Hortobágy
Credit: Attila Szilágyi



Phylogenetic examination

- most sequences (wild birds and poultry): 100% similarity during the sequence analysis of the HA gene
- CH genotype (2022-2023 epidemic)
- this genotype circulated in the region in wild birds
- common cranes were infected with this virus
- 0.5% genetic change from the strains isolated during previous outbreaks
- closest relationship: A/grey goose/Austria/23981368-001/2023

- another strain in wild birds and in a poultry outbreak (pheasants, Jász-Nagykun-Szolnok county)
- 99,24% (13 nucleotide difference) from the above listed strain
- closest relationship (99.82%, 3 nucleotide difference): A/swan/Moldova/8917-4_24VIR442-1/2023 (A/H5N1)



Lifting of zones

- Last surveillance zone (HU): 27.02.2024
- Last surveillance zone (SK): 14.04.2024
- **Freedom from HPAI: 22.03-15.04.2024**



Number of AI samples

7th November 2023-22th March 2024

County	Dead bird	Swab	Total
Bács-Kiskun	305	101 156	101 461
Baranya	2	105	107
Békés	183	20 637	20 820
Borsod-Abaúj-Zemplén	94	836	930
Csongrád-Csanád	198	19 189	19 387
Fejér	34	932	966
Győr-Moson-Sopron	41	756	797
Hajdú-Bihar	460	10 133	10 593
Heves	109	747	856
Jász-Nagykun-Szolnok	116	3 190	3 306
Komárom-Esztergom	96	4 960	5 056
Nógrád	13	600	613
Pest	37	778	815
Somogy	67	159	226
Szabolcs-Szatmár-Bereg	673	12 951	13 624
Tolna	3	169	172
Vas	21	38	59
Veszprém	17	154	171
Zala	11	18	29
Total	2 480	177 508	179 988

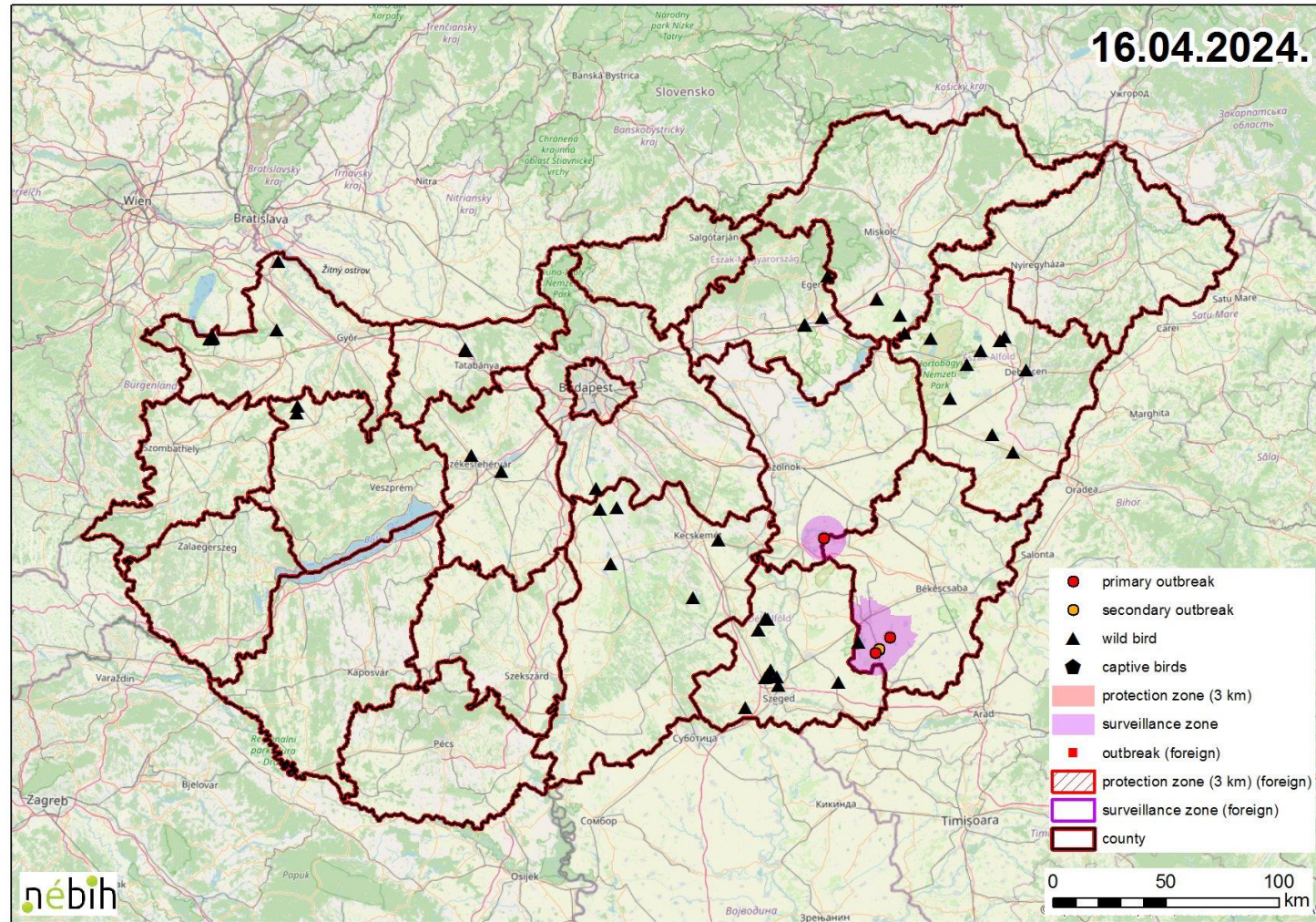


LPAI

- 08.11.2023-19.03.2024.
- H5N2
- Bács-Kiskun county
- 13 outbreaks (without symptoms)
- foie gras waterfowl holdings (12 moulard duck and 1 goose)
- Bócsa (8), Bugac (1), Csólyospálos (1), Jászszentlászló (1), Kiskunmajsa (1), Tiszaalpár (1)
- immediate, separate slaughter/killing
- 1 km restricted zone: min. 42 days
- cleaning and disinfection (as in case of HPAI)
- repopulation: after 21 days



New outbreaks





New outbreaks

Békés county

- 3 primary outbreaks
 - **Tótkomlós:** fattening duck holding: 44183 ducks,
 - neurological symptoms and increased mortality
 - sample taken: 13th April
 - H5N1 strain confirmed: 15th April
 - depopulation: 16th April





New outbreaks

Békés county

Pusztaföldvár: 1555 breeding goose

- sample taken: 15th April
- H5N1 strain confirmed: 16th April
- Depopulation: 17th April

Gyomaendrőd: 20000 fattening turkey

- sample taken: 26th April
- H5N1 strain confirmed: 27th April
- Depopulation: 29th April
- Same integration as Adis-11 and Adis-12, but no epidemiological link

4 secondary outbreaks





New outbreaks

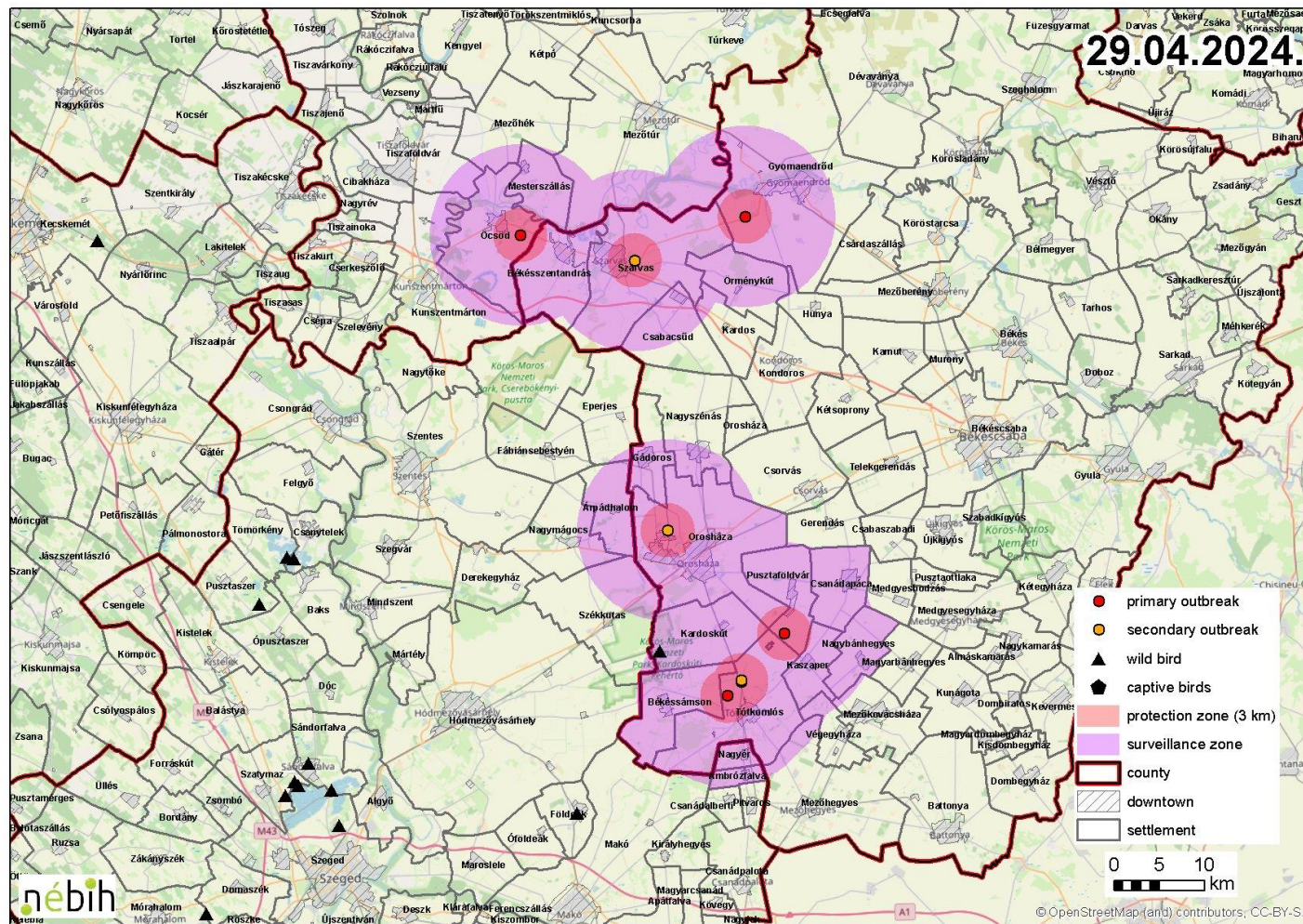
Jász-Nagykun-Szolnok county

- 1 primary outbreak
 - **Öcsöd**: fattening turkey holding: 19900 turkeys
 - neurological symptoms, increased mortality
 - sample taken: 15th April
 - H5N1 strain confirmed: 16th April
 - depopulation finished 18th April



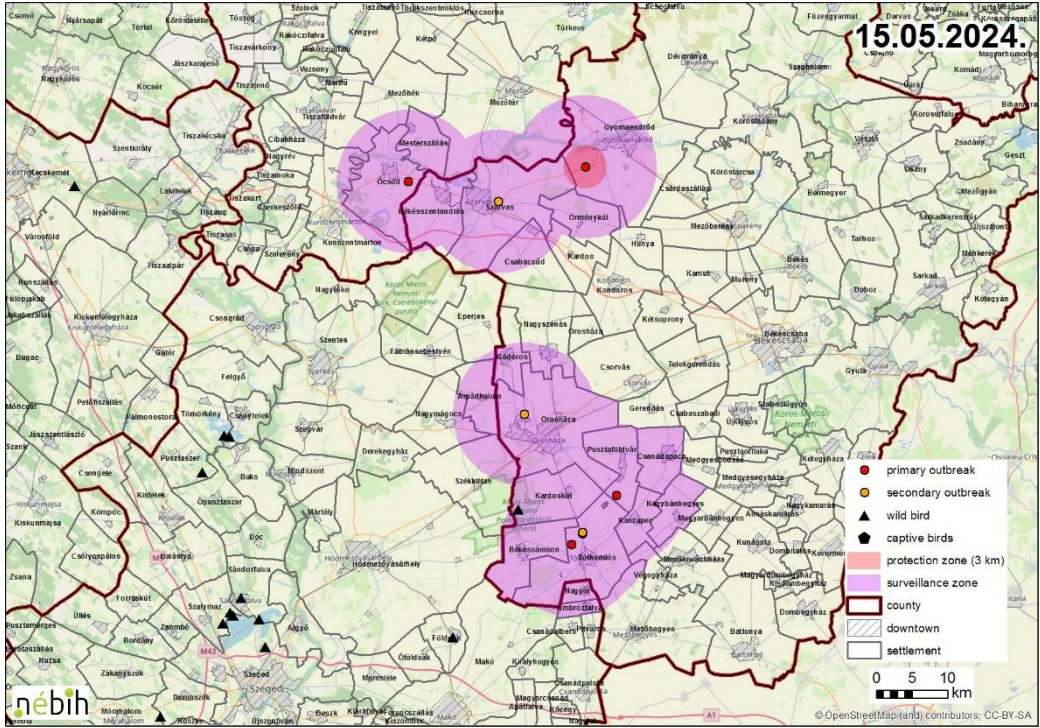
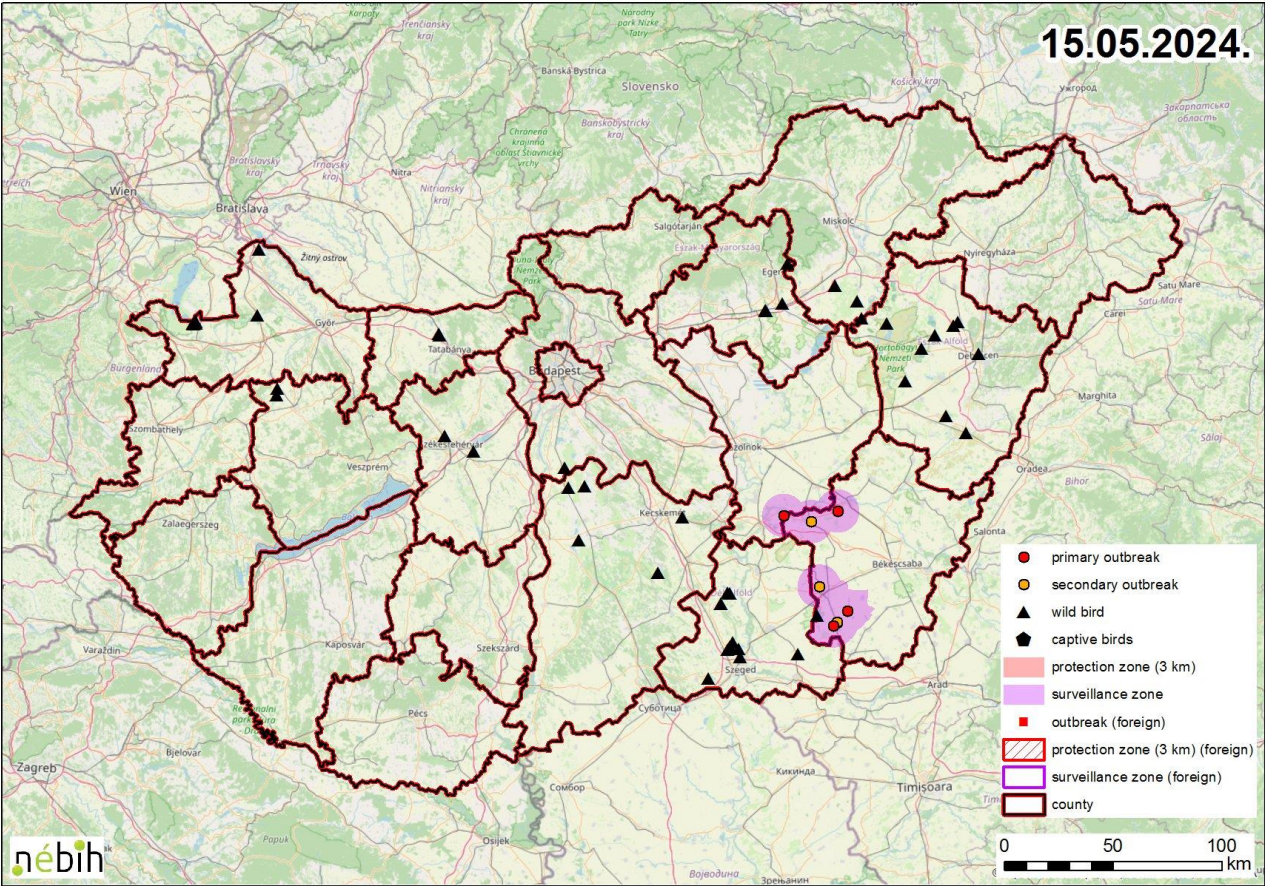


New outbreaks





Current situation





Measures

Recap

- Awareness-raising and information-spreading
- Stamping out
- Epidemiological investigation (same owner, integration, holding of origin, proximity...)
- Extended surveillance zone
- Wild birds
- Phylogenetic examination: CH genotype: same as in the previous epidemic (also in cranes)

Highlights

- Transport – whole area of Bács-Kiskun, Csongrád-Csanád and Békés – before movement of waterfowls to slaughterhouse (swab – 72 h, have to wait the result)
- Transport – whole country – before technological movement of waterfowls (swab – 72 h, have to wait the result)
- Closed keeping – high risk counties –from 26 October 2023, still in force



Measures

	Birds killed (No)	Establishments (No)
Affected	124 602	8
Preventive	53 423	2
Total	178 025	10



Number of AI samples

15th April 2023–13th May 2024

County	Dead bird	Swab	Total
Bács-Kiskun	56	17 644	17 700
Baranya	1	8	9
Békés	21	3 774	3 795
Borsod-Abaúj-Zemplén	8	130	138
Csongrád-Csanád	11	3 350	3 361
Fejér		405	405
Győr-Moson-Sopron	11	46	57
Hajdú-Bihar	129	722	851
Heves	1	86	87
Jász-Nagykun-Szolnok	5	320	325
Komárom-Esztergom	20	14	34
Nógrád		140	140
Pest	2	180	182
Somogy	5	40	45
Szabolcs-Szatmár-Bereg	73	342	415
Tolna	1	4	5
Vas		0	0
Veszprém		4	4
Zala	1	82	83
Total	345	27 291	27 636

Thank you!



Credit: Zsolt Szilágyi

