



**National Sanitary Veterinary and Food
Safety Authority of Romania**

**Information on Newcastle disease outbreak in
commercial laying hens farms in Romania**

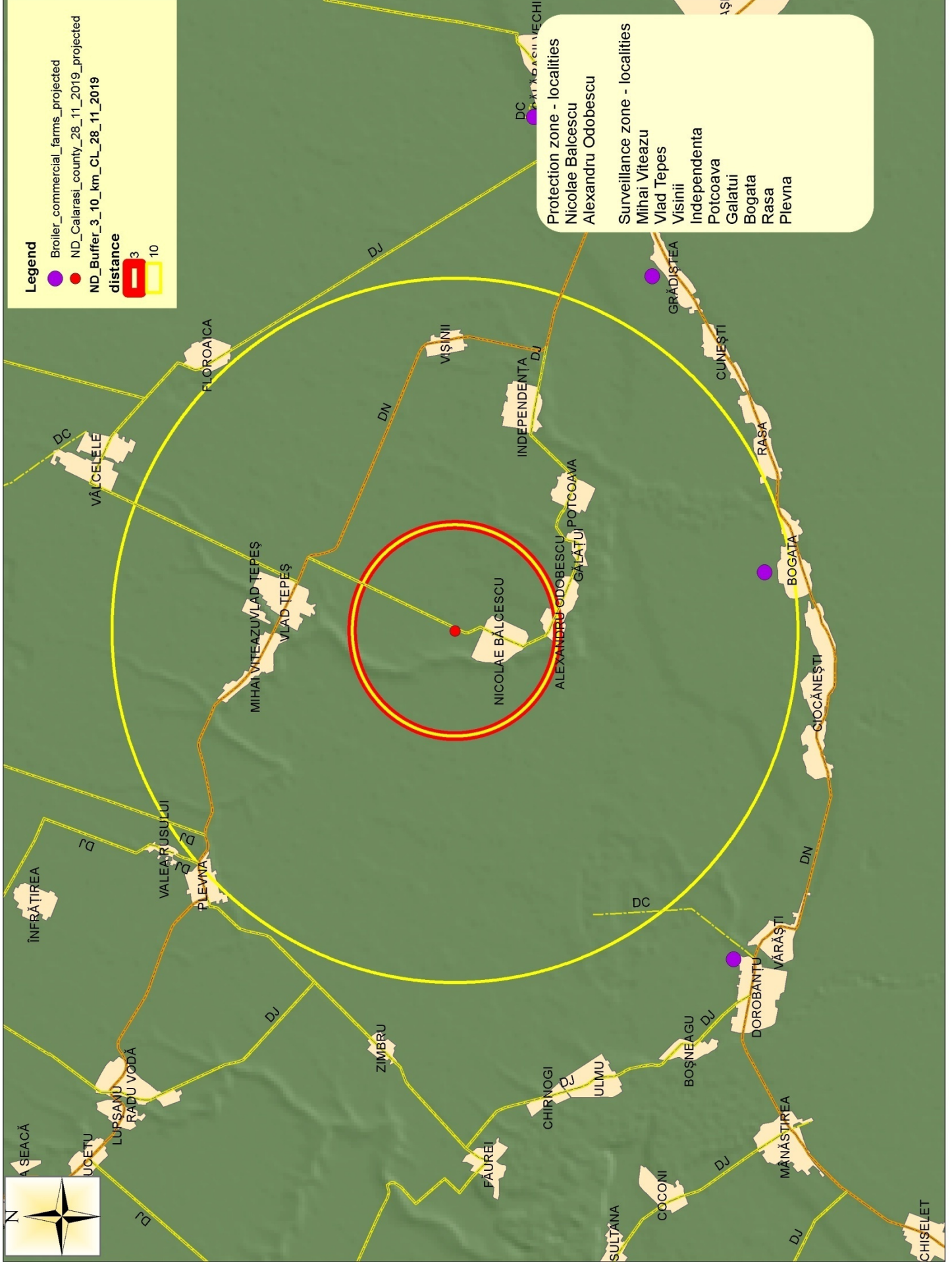
**PAFF Committee, 17 December 2019
Bruxelles**



Location of the outbreak

- Location of the outbreak:
Călărași County
- Outbreak SC Agriplay
Company – farm in Nicolae
Bălcescu locality
- Date of confirmation:
28.11.2019
- Longitude: 27.082030
- Latitude: 44.29567
- Last outbreak 2017.





Legend

- Broiler_commercial_farms_projected
- ND_Calarasi_county_28_11_2019_projected
- ND_Buffer_3_10_km_CL_28_11_2019 distance
- 3
- 10

Protection zone - localities
 Nicolae Bălcescu
 Alexandru Odobescu

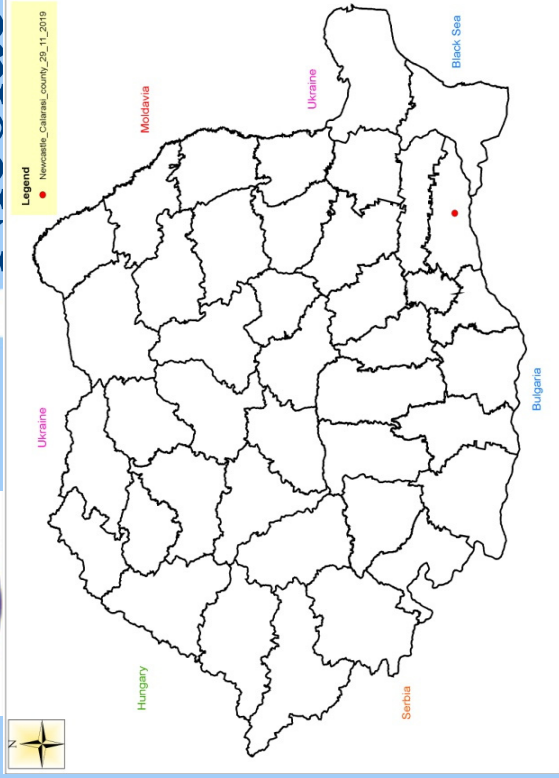
Surveillance zone - localities
 Mihai Viteazu
 Vlad Tepeș
 Vișinii
 Independența
 Potcoava
 Galatui
 Bogata
 Rasa
 Plevna



Map labels include: A SEACĂ, UCETU, LURSANU, RADU VODĂ, ÎNFRĂȚIREA, VALEA RUSULUI, PLEVNA, MIHAI VITEAZU, VLAD TEPEȘ, FLOROAICA, VĂLCELELE, VIȘINII, INDEPENDENȚA, NICOLAE BĂLCESCU, ALEXANDRU ODOBESCU, GALATUI, POTCOAVA, GRĂDJIȘTEA, CUNEȘTI, RASA, BOGATA, CIOCĂNEȘTI, DOROBANȚU, VĂRĂȘTI, FAUREI, CHIRNOGI, ULMU, BOȘNEAGU, MĂNĂȘTIREA, SULTANA, COCONI, ZIMBRU, CHISELET, DN, DJ, DC, and AȘI.



The outbreak SC Agriplay Company – farm in Nicolae Bălcescu locality



Outbreak farm: The farm has been populated on 05.11.2019, with 10700 rearing laying hens, 16 weeks old, purchased from another commercial farm from Alba county. According to the information received from the local competent authority, before delivering, the entire herd has been vaccinated against Newcastle disease. At the farm of origin from Alba county, and in the other locations where the rearing laying hens were dispatched from this farm, there were not registered any clinical sign.

First signs of disease: from 21.11.2019, until the date of confirmation, 3943 laying hens died

Suspicion: notified by the County Veterinary Authority (SVFSD), on 26-th of December; restriction on poultry movement established, measures according with the provisions of the Council Directive 92/66/EEC.

Confirmation: 10 samples were analyzed at the National Reference Laboratory by RT-PCR and anathomo-pathologically, and reacted positive on 28.11.2019.





Immunization, epidemiological investigation

- The poultry have been immunized five times against Newcastle disease virus (one day, 9 days, 24 days, 45 days, 80 days), the last vaccination against Newcastle disease was performed on 04.11.2019 (at the moment of loading in the means of transport that transports the poultry to the destination farm), 16 weeks of age, with Gallimune 407 vaccine.
- Even the farmer declared that the flock was vaccinated but did not show the documents justifying for the antibody titer after vaccination, for which the owner of the farm of origin was sanctioned.
- The preliminary epidemiological investigation did not reveal the origin of the virus, but it could be suspected a combination of lack of bio-security measures and wrong application of the vaccination procedures.

The restriction zones

Have been established the restriction zones: a 3 km zone – the protection zone, and a 10 km zone – the surveillance zone.

In the protection zone, there are 2 localities (Nicolae Bălcescu, Alexandru Odobescu)

In the surveillance zone, there are 9 localities (Vlad Tepes, Mihai Viteazu, Rasa, Visinii, Independenta, Potcoava, Galatui, Bogata, Plevna) and another commercial farm.

Surveillance in the protection zone

Locality	Village	Date of examination	Total backyards	Backyards with poultry	No. of receptive poultry	Examination result	
						Healthy	Suspected
Nicolae Bălcescu	Alexandru Odobescu	26 - 28,11,2019	189	119	994	994	
Alexandru Odobescu	Alexandru Odobescu	20 - 30,11,2019	73	64	837	837	
Total			262	183	1831	1831	

Inspections in the surveillance zones

No. of localities	Date of examination	Total backyards	Backyards with receptive poultry	No. of poultry	Result of examination	
					Healthy	Suspected
Mihai Viteazu	29,11 - 01,12,2019	59	50	1295	1295	-
Vlad Tepes	26-28,11,2019	119	84	2521	2521	-
Visinii	01-30,10,2019	35	35	570	570	-
Independenta	4-7,11,2019	125	125	1100	1100	-
Potcoava	01- 30,10,2019	40	40	725	725	-
Galatui	20 - 30,11,2019	48	41	1002	1002	-
Bogata	26-29,11,2019	18	18	430	430	-
Rasa	20-25,11,2019	28	28	580	580	-
Plevna	01 - 30,11,2019	18	18	340	340	-
Total		490	439	8563	8563	



Culling, disposal, disinfection

- Local Disease Control Center (L.D.C.C.) has implemented a plan for measures in accordance with the provisions of Directive 1992/66 / EEC regarding the control of Newcastle Disease, transposed into national legislation by ANSVSA Order no. 153/2006 and the Operational Manual 3-rd edition 2019 for intervention in avian influenza and Newcastle disease.
- The culling of the poultry was completed on 5.12.2019. Disposal of cadavers— by burring into the farm.
- The fixation disinfection was completed on 5.12.2019; the cleaning of manure and the washing will be completed in the period 06.12.2019 to – 20.12. 2019 and the final disinfection will be done on 27th December.
- L.D.C.C. ordered no trade in live poultry, poultry meat products, from the restriction zones.

Stamping out - culling with CO₂





Epidemiology

- Epidemiology, ongoing: it seems that the source of the virus is in wild birds. Incidentally, some breaches in the bio security system of the farm could allow the transmission of the virus from wild birds to domestic birds.
- No other poultry were reported as sick or found dead in the area
- Spread/Trace Forward: We have not identified any movement of live poultry, or day old chicks from Călărași County to other Member States during the high risk period.

Vicinity of farm



SC AGRIPLAY COMPANY SRL

27.082030

44.295679



Gălățui Lake is set up as a fish pond, the site hosting herds of protected species of wild birds, but also 61 wild birds species, for example: large cormorant, yellow claw, small egret, winter swan, red duck, large mackerel, mackerel. Also, the site is important for nesting, but also for wintering ducks and geese. During the migration period, the site hosts more than 20.000 species of seabirds.

Conclusions

The farm was populated on 05.11.2019 with birds of origin from S.C. Albatros Gold S.R.L. Alba Iulia, birds vaccinated in the origine farm on the date of shipment 04.11.2019.

The occurrence of the disease may be due to vaccination at the time of boarding overlapping with the transport stress of the birds. In the herds incompletely immunized due to the incorrect vaccinations, enzootic aspects are encountered, in which the number of cases of illness varies between 20-80%, in the SC Agriplay Company SRL holding morbidity and mortality reaching a percentage of 40%.

The possible origin of the virus may be due to the wild birds, which are carriers of the virus, Lake Gălățui hosting 61 wild birds species, for example: large cormorant, yellow stalk, small egret, winter swan, red duck, cochineal, but it also allows wintering of wild ducks and geese, the viral strain being a highly pathogenic strain, which causes predominant internal hemorrhagic lesions, transmitted by air or by contaminated excretions.

Thank you for your attention!

