



National Sanitary Veterinary and Food Safety Authority of Romania

Information on two Newcastle disease outbreaks in commercial broiler farms in Romania

PAFF Committee, 3-4 May 2016
Bruxelles



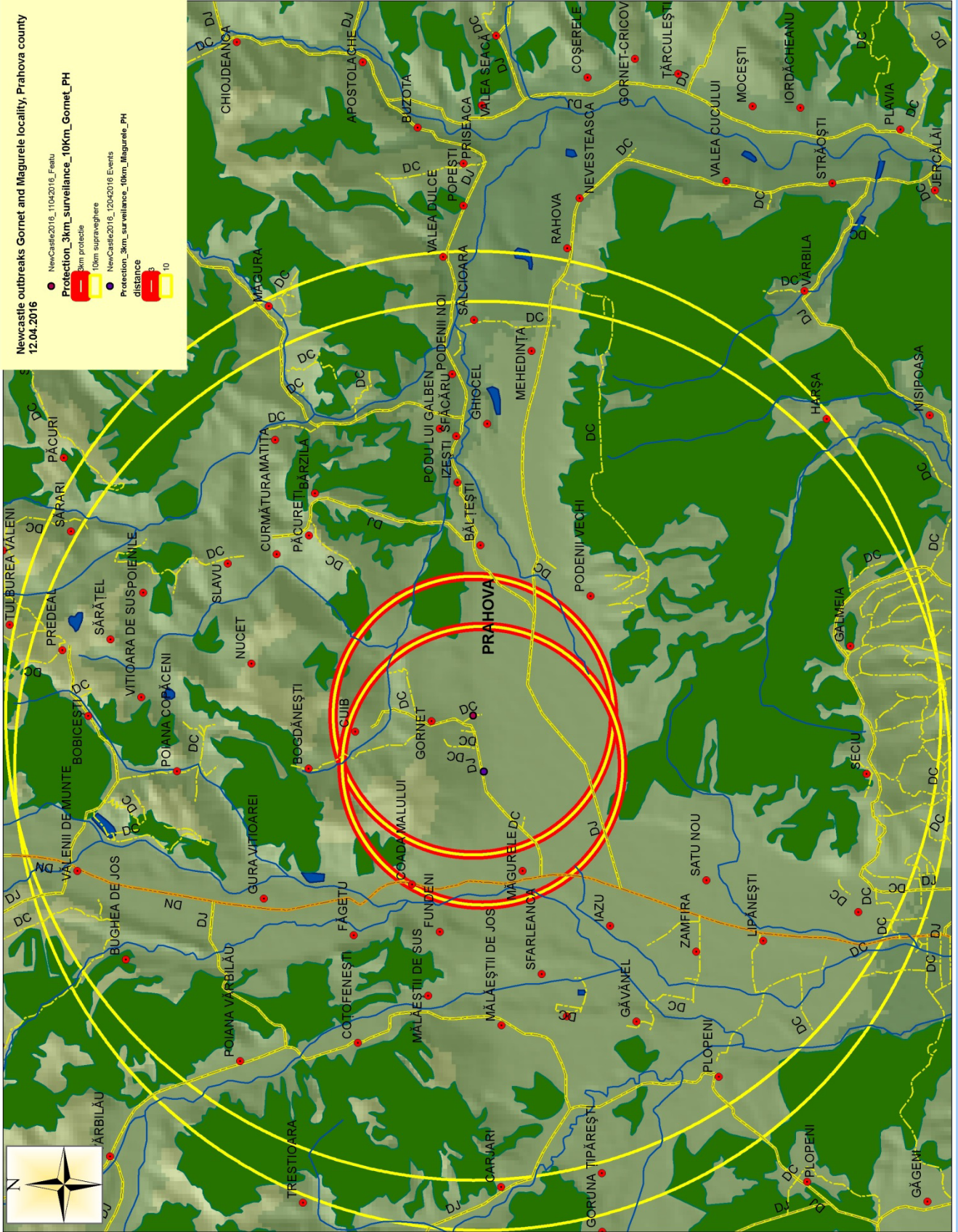
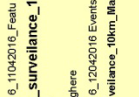
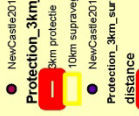
Location of the outbreaks

- Location of the two outbreaks: Prahova County
- Outbreak in Gornet locality
- Date of confirmation: 09.04.2016
- Longitude: 26.080181
- Latitude: 45.110460
- outbreak in Măgurele locality
- Date of confirmation: 13.04.2016
- Longitude: 26.066434
- Latitude: 45.108841



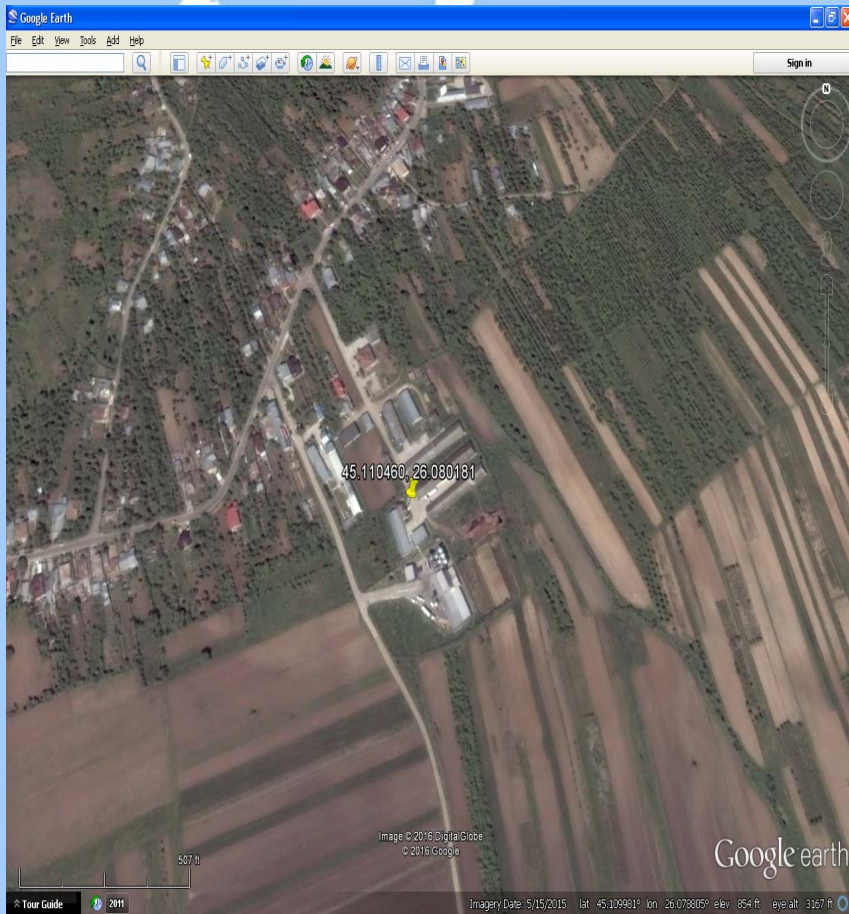
Newcastle outbreaks Gornet and Magurele locality, Prahova county
12.04.2016

- NewCastle2016_11042016_Feetu
- Protection_3km_surveillance_10Km_Gornet_PH
- Protection_3km_surveillance_10Km_Magurele_PH





Primary outbreak: Gornet locality



Outbreak holding: 70000 chickens, aged from 9 to 32 days old. Three shelters, each one with two compartments. The infected compartment was that from the shelter no. 2, compartment A. In the infected compartment were kept 13314 chickens.

First signs of disease: on 07.04.2016, until the date of confirmation, 975 chicken died.

Suspicion: notified by phone by the County Veterinary Authority (SVFSD), on 8-th of April; restriction on poultry movement established, measures according with the provisions of the Council Directive 92/66/EEC.

Confirmation: 12 samples were analyzed at the National Reference Laboratory by RT-PCR and anathomo-pathologically, and reacted positive on 9.04.2016.



Immunization, epidemiological investigation primary outbreak: Gornet locality

- The farmer has two more other commercial holdings, of the same capacity; one of them, in Magurele, was also infected as a secondary outbreak.
- The poultry have been immunized three times: on 07.03.2016, on 17.03.2016, the last one on 03.04.2016 with a live, attenuated vaccine.
- Even the farmer declared that the flock was vaccinated, the antibodies tittered in the laboratory on 18 samples were found at a low level.
- 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.
- 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 two localities (Cuib and Gornet)
- In the surveillance zone, there are more localities and four other commercial farms.



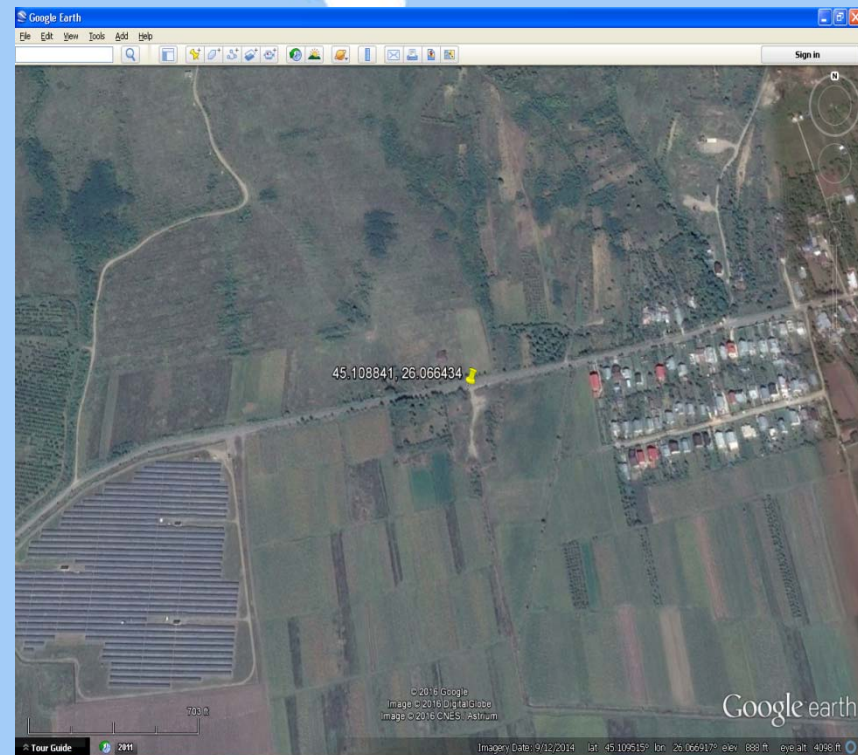
Secondary outbreak Măgurele locality

Outbreak holding: 78500 chickens, aged from 11 to 27 days old, and sheltered in five sheds. In the infected shed were kept 11000 chickens.

First signs of disease: were notified on 11.04.2016, when chickens lost their appetite, showed apathy and, until the date of confirmation, 1170 chicken died.

Suspicion: notified by phone by the County Veterinary Authority (SVFSD), on 10-th of April; restriction on poultry movement established, measures according with the provisions of the Council Directive 92/66/EEC.

Confirmation: The samples collected from the holding were analyzed at the National Reference Laboratory by RT-PCR and anathomo-pathologically and reacted positive on 13.04.2016.





Immunization, epidemiological investigation secondary outbreak: Magurele locality

- The way in which the second holdings presumed to get infected was the lack in respecting the bio-security measures, taking into consideration that the holdings belongs to the same farmer, the infection in the second farm appeared a few days later after the first one.
- The flock has been also immunized three times: on 04.03.2016, in hatchery, on 25.03.2016, the last one on 06.04.2016. The titers of antibodies tested in the laboratory were, also under the acceptable limit.
- The preliminary epidemiological investigation did not revealed the origin of the virus, but it could also be suspected a combination of lack of bio-security measures and wrong application of the vaccination procedures.
- Also in the case of the second outbreak have been established the restriction zones: a 3 km zone - the protection zone, and a 10 km zone - the surveillance zone.



Protection and surveillance zone for both outbreaks

3 km protection zone

10 km surveillance zone



Surveillance in the protection zone

Protection zone (4 localities)							
Locality	Village	Date of examination	Total holding	Backyard with poultry	No. of receptive poultry	Examination result	
						Healthy	Suspected
Gornet	Gornet	15.04.2016	84	46	494	494	0
Gornet	Cuib	11-14.04.2016	331	184	1741	1741	0
Magurele		19-19.04.2016	628	354	3822	3822	0
Cooda Malului		20-21.04.2016	162	106	1235	1235	0
Total			1205	690	7292	7292	0

Inspections in the surveillance zones

No. of localities	Date of examination	Total backyards	Backyards with receptive poultry	No. of poultry heads	Result of examination	
					Healthy	Suspected
50	15-27.04.2016	3230	1682	19578	19578	0

Focare pseudopesta aviara, Gornet si Magurele															
Zona de protectie								Localitati din:							
Localitate	Sat	Data examinarii	Total exploataii existente	Exploataii cu pasari	Efectiv de pasari la data examinarii	Rezultatul examinarii		Localitate	Sat	Data examinarii	Total exploataii existente	Exploataii cu pasari	Efectiv de pasari la data examinarii	Rezultatul examinarii	
						Nr pasari sanatoase	Nr pasari suspecte							Nr pasari sanatoase	Nr pasari suspecte
Gornet	Gornet	15.04.2016	84	46	494	494	0	Valenii de Munte		15.04.2016	1244	370	4300	4300	0
Gornet	Cuib	11-14.04.2016	331	184	1741	1741	0	Predeal Sarari	Bobicesti	21.04.2016	104	73	473	473	0
Magurele		19-19.04.2016	628	354	3822	3822	0		Sarari	24.04.2016	10	7	56	56	0
Coadă Malului		20-21.04.2016	162	106	1235	1235	0		Saratel	23.04.2016	45	21	174	174	0
			1205	690	7292	7292	0		Vitioara de Sus	17.04.2016	175	81	470	470	0
									Poienile	18.04.2016	119	80	534	534	0
									Predeal	15.04.2016	169	110	580	580	0
								Gura Vitioarei	Bughea de Jos	16 - 18.04.2016	238	143	1511	1511	0
									Gura Vitioarei	19 - 21.04.2016	363	220	2018	2018	0
									Fagetu	22 - 23.04.2016	162	104	1138	1138	0
									Fundeni	22 - 23.04.2016	152	96	1014	1014	0
									Poiana Copaceni	24 - 25.04.2016	173	109	1242	1242	0
								Vărbilău	Poiana Varbilau	15-16.04.2016	318	206	2080	2080	0
									Cotofenesti	17-19.04.2016	304	186	1860	1860	0
								Dumbrăvești	Malaestii de Sus	26.04.2016	30	15	540	540	0
									Malaestii de Jos	26.04.2016	60	35	620	620	0
									Sfârleanca	25.04.2016	50	30	840	840	0
									Gavanel	24.04.2016	30	12	156	156	0
								Magurele	Iazu	16 - 17.04.2016	145	112	1248	1248	0
								Lipănești	Zamfira	22-23.04.2016	220	179	1600	1600	0
									Satu Nou	21.04.2016	47	29	275	275	0
									Lipanesti	18-20.04.2016	746	575	4800	4800	0
									Sipot	15-17.04.2016	520	470	3700	3700	0
								Microsoft Office Excel Chart	Plopieni	27.04.2016	80	55	1210	1210	0
								Bordești-Seacă	Plopieni sat	26.04.2016	100	60	2890	2890	0
								Păcureți	Seciu	24-25.04.2016	370	284	2700	2700	0
									Slavu	12-26.04.2016	64	28	327	327	0
									Matita	12-26.04.2016	262	90	860	860	0
									Pacureti	12-26.04.2016	128	46	443	443	0
									Barzila	12-26.04.2016	154	85	900	900	0
									Curmatura	12-26.04.2016	124	24	630	630	0
								Gornet	Nucet	14.04.2016	86	41	395	395	0
									Bogdanesti	15.04.2016	21	12	134	134	0
								Baltesti	Izesti	12-26.04.2016	80	35	522	522	0
									Baltesti	12-26.04.2016	329	141	2250	2250	0
									Podenii Vechi	12-26.04.2016	562	262	3778	3778	0
								Podenii Noi	Podu lui Galben	27.04.2016	47	26	197	197	0
									Sfăcaru	18.04.2016	120	75	675	675	0
									Podenii Noi	24-25.04.2016	317	275	2242	2242	0
									Salcioara	23.04.2016	32	27	220	220	0
									Valea Dulce	26.04.2016	147	118	947	947	0
									Ghiocel	19.04.2016	76	52	450	450	0
									Mehedinta	15-17.04.2016	280	193	2075	2075	0
									Nevesteasca	20.04.2016	56	37	350	350	0
									Popesti	21.04.2016	47	37	327	327	0
									Rahova	22.04.2016	84	62	520	520	0
								Plopu	Harsa	20.04.2016	114	50	650	650	0
								Cocorastii Mislii	Cocorastii Mislii	27.04.2016	120	80	2365	2365	0
									Goruna	27.04.2016	70	35	2460	2460	0
									Tiparestt	27.04.2016	75	45	1053	1053	0
											9369	5538	62799	62799	0



Culling, disposal, disinfection

- The culling of the poultry was completed on 12.04.2016 in Gornet outbreak, and on 14.04.2016 in Măgurele outbreak;
- All cadavers have been disposed in a rendering plant;
- The fixation disinfection was completed on 11.04.2016 in Gornet outbreak; the cleaning of manure and the washing was completed from 18th to 25th April 2016, and the final disinfection was done on 26th April.
- In Măgurele outbreak fixation disinfection was completed on 13.04.2016; and was completed the cleaning of manure from 21-23th April.
- Local CA ordered no trade in live poultry, eggs, poultry products, manure or bedding out of the restriction zones in Prahova County, but some derogation for for transporting poultry to slaughterhouse from commercial farms in the surveillance zone were issued;



Epidemiology

- **Epidemiology, tracing back**: According to results of the EURL, it seems that the source of virus in Romania it is maintained in wild birds. Accidentally, some breaches in the bio-security system could allow the contact of wild birds with domestic poultry.
- Tracings of people and vehicles had not relevant answers.
- The relationship of infection between the two holdings was not found out, the single evidence is that they belongs to the same owner and the poultry in the second outbreak get sick a few days after the primary outbreak.
- 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 Prahova County to other Member States during the high risk period.

Thank you for your attention!

