

Eradication: Final report for Avian Influenza 2018

For each approved annual or multi-annual programme Member States shall submit to the Commission by the 30 April each year an annual detailed technical and financial report covering the previous year. That report shall include the results achieved and a detailed account of eligible costs incurred (Art 14 of Regulation (EU) No 652/2014).

This form is for information only, no submission possible.

ID: 20190926-HQPIDZDS

Country code: HR

Reporting period

From: 2018

To: 2018

Year of implementation: 2018

1. Technical implementation of the programme

1.1 Description and evaluation of the evolution of the epidemiological situation, the technical implementation of the activities foreseen under the programme and the cost-effectiveness of the programme.

AI surveillance programme in poultry

In the year 2018 AI programme is implemented as a combination of risk-based surveillance and surveillance based on representative sampling according to the Commission Decision 2010/367/EU. Objectives of the surveillance of the AI programme were to collect the data about virus circulation, early detection and control the disease (LPAI subtypes H5 and H7 in poultry and domestic waterfowl). According to the type of poultry keeping in Croatia, number of the poultry holdings and fact that all outbreaks of AI were detected in holdings with presence of more than one poultry species ("mixed species holdings") with low biosecurity level, testing was based on combination of both surveillance methods with hypothesis that it will cover an entire poultry population in Croatia.

Sampling and testing in poultry holdings was carried out in order to detect presence of AI antibodies.

Surveillance based on representative sampling was implemented on the holdings prescribed by the programme:

- Laying hens: 67 randomly selected holdings with laying hens- once per year and
- Breeding flocks of all poultry species: 71 registered poultry holdings (53 chicken breeders; 2 turkey

breeders, 7 goose breeders and 9 duck breeders)- twice per year.

Risk based surveillance was conducted on a dedicated holdings located "in higher risk area" based on criteria and risk factors. In total 147 backyard holdings with more than one poultry species in "higher risk areas" were tested during 2018.

AI surveillance programme in wild birds

It was foreseen testing of wild birds (minimum 5 birds/location) on the 22 locations. Those locations was of the main interest for active searching of dead or moribund wild birds. In 2018 in total 227 wild birds were tested (pooled samples; 1 bird- one pool sample of brain tissue and/or cloacal, tracheal and oropharyngeal swab). In total 213 PCR tests on wild birds were performed. Costs of collecting and identification of wild birds are 500 HRK (67,5 EUR) per bird.

AI epidemiological situation in poultry and wild birds

In period between December 2016 and April 2017 four primary outbreaks of AI in poultry were confirmed (in total on 11 holdings in following counties: City of Zagreb, Koprivnica- Križevci, Virovitica- Podravina and Krapina- Zagorje). Subtypes H5N5 and H5N8 were identified. In total 3,067 poultry were culled and destroyed and 21, 016 eggs were destroyed. All measures in accordance with Directive 2005/947EZ were applied. There is no evidence of AI in poultry since the last confirmed outbreak in March 2017. During 2016 and 2017 (until April 30, 2017) HPAI- H5N5 and H5N8 were isolated in 41 wild birds (in 2 wild birds-subtype H5N5 were confirmed, in 39 wild birds subtype H5N8 were confirmed). All positive birds were found dead. Locations where positive birds were found are situated in seven counties (Osijek- Baranja, Vukovar- Srijem, Sisak- Moslavina, City of Zagreb, Koprivnica- Križevci, Virovitica- Podravina, Karlovac). Since April 2017 no further cases or outbreaks of AI occurred.

Additional clarification of financial costs in 2018:

Total No of holdings sampled in 2018

In total 285 poultry holdings in the framework of surveillance programme were tested for presence of AI. Out of this 285 holdings, poultry from one holding in Bokšić Lug settlement reacted sero- positive on H7. In addition, all holdings keeping poultry in Bokšić Lug were tested with PCR tests (in total 403 PCR tests on 53 poultry holdings were performed and 708 birds were tested). On 23 holdings positive PCR samples on AI were found and all were negative on H5 and H7.

No of samples per holding

Following sampling criteria were applied:

- 5- 10 birds/samples per poultry holding (from all sheds on the holdings with more than one shed) from all poultry category except ducks, geese and mallards,
- 20 birds/samples per holdings with ducks/geese/mallards,
- holdings with more than one shed per holding at least 5 birds per shed.

In column "No of samples per holding" an average is calculated (depending of different No of sheds per each holding), (10 samples/holding; 20 samples/holding).

Total No of tests performed by method:

Discrepancy in the number of HI tests for H5 and HI tests for H7- the number of H5 tests is greater than the number of H7 tests because the H5N8 antigen is included in the routine panel of antigens for testing of ducks and geese sera in order to detect possible silent infection with H5 HPAI virus in these species.

The total number of PCR tests done is presented (both M gene PCR (generic PCR) and PCR tests that have been conducted for subtyping (i.e. H5, H7) subsequently to positive generic PCR test)).

Authorised veterinary organisations billed the Veterinary and Food Safety Directorate by submitting invoices in which a total number of poultry samples (blood / swab / carcass) delivered is 4,477 poultry. Croatian Veterinary Institute- Poultry Center counted 4 017 samplings what is less than payments to the authorized veterinary organizations. The difference is due to pooling of organs from carcasses and/or swabs from the same holding and species in order to reduce the number of laboratory testing.

1.2 Details on the level of achievement of the targets set in the approved programme and technical difficulties.

See point 1.1.

1.3 Epidemiological maps for infection and other relevant data on the disease/activities (information on serotypes involved,...) (Please attach files of data using the PDF attachment feature) Use the textbox below to provide clarifications for the maps you attach, if needed.

See point 1.1.

2. TECHNICAL IMPLEMENTATION OF THE PROGRAMME ON AVIAN INFLUENZA

VERY IMPORTANT: Please fill out the following tables with figures corresponding to measures performed during the implementing period (1/1 to 31/12).

In the column "Total number of samples taken", please put 0 if the same samples have already been counted for another laboratory analysis (example : for HI-H5 and HI-H7 test, only 1 sample should be counted).

Table A - POULTRY HOLDINGS SAMPLED : SEROLOGICAL INVESTIGATION ACCORDING TO ANNEX I TO COMMISSION DECISION 2010/367/EU

Poultry category	NUTS2 Code	Total number of holdings	Total number of holdings sampled	Number of samples per holding	Total number of samples taken	Methods of laboratory analysis	Total number of tests performed per method
Laying Hens	HR04	175	42	10	646	HI test for H7	646
Laying Hens	HR04	0	0	0	0	HI test for H5	646
Laying Hens	HR03	0	8	10	90	HI test for H7	90
Laying Hens	HR03	0	0	0	0	HI test for H5	90
Chicken Breeders	HR04	50	41	10	1,242	HI test for H7	1,242
Chicken Breeders	HR04	0	0	0	0	HI test for H5	1,242
Chicken Breeders	HR03	0	1	10	20	HI test for H7	20
Chicken Breeders	HR03	0	0	0	0	HI test for H5	20
Geese breeders	HR04	7	5	20	68	HI test for H7	68
Geese breeders	HR04	0	0	0	0	HI test for H5	136
Duck breeders	HR04	9	5	20	90	HI test for H7	90
Duck breeders	HR04	0	0	0	0	HI test for H5	180
Turkey Breeders	HR04	6	1	20	5	HI test for H7	5
Turkey Breeders	HR04	0	0	0	0	HI test for H5	5
Backyard Flocks	HR04	151	133	10	1,581	HI test for H7	1,581
Backyard Flocks	HR04	0	0	0	0	HI test for H5	1,897
Backyard Flocks	HR04	0	53	0	1,416	PCR test	403
Backyard Flocks	HR04	0	23	0	35	Virus isolation test	35
Total		398	312	110	5,193	Methods of laboratory analysis	Total number of tests
						Total - HI test for H5	4,216
						Total - HI test for H7	3,742
						Total - PCR test	403
						Total - Virus isolation test	35

Table B - WILD BIRDS : INVESTIGATION ACCORDING TO THE SURVEILLANCE PROGRAMME FOR AVIAN INFLUENZA IN WILD BIRDS SET OUT IN ANNEX II TO DECISION 2010/367/EU

NUTS 2 Code	Total number of wild birds sampled for passive surveillance	Number of PCR tests done for passive surveillance	Number of virus isolation tests for passive surveillance
HR03	48	48	0
HR04	150	150	0
Total	198	198	0

Table C - POULTRY AND WILD BIRDS : NUMBER OF OUTBREAKS OF AVIAN INFLUENZA DETECTED DURING THE YEAR

	Domestic birds	Wild birds
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Nr of HPAI outbreaks	0	0
Nr of LPAI outbreaks	0	0

COMMENT / ADDITIONAL CLARIFICATION

Due to some unpredictable circumstances, which could not be neither resolved nor influenced by Veterinary and Food Safety Directorate, invoice from Croatian Veterinary Institute for December 2018 is not payed. For that reason, all the laboratory tests from December 2018th cannot be claimed and are deleted from the Final Financial report for 2018.

Number of tests performed during December 2018:

- 800 HI H5 tests
- 682 HI H7 tests
- 15 PCR- wild birds
- 15 wild birds sampled for passive surveillance

In total "Amount expected to be claimed" is reduced for 11 049,44 EUR.