

H5N8 HPAI – LPAI in Italy in 2018

April update

STANDING COMMITTEE ON PLANTS, ANIMALS, FOOD AND FEED
Section Animal Health and Welfare

18 – 19 April 2018

HPAI H5 outbreaks in Italy 2016-2017

- Cases in **wild birds**:

- 4 in Friuli Venezia Giulia
- 4 in Lombardy
- 3 in Piedmont
- 1 in Veneto
- 2 in Emilia Romagna

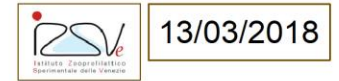
- Cases in **domestic poultry**:

- 5 in Emilia Romagna
- 1 in Friuli Venezia Giulia
- 1 in Lazio
- 47 in Lombardy
- 2 in Piedmont
- 27 in Veneto

Total of 83 cases in
the domestic poultry

HPAI H5N8 outbreaks - Italy 2018

**March 2018
Lombardy region:
three new HPAI
H5N8 cases in
domestic poultry**



1st Outbreak – Bergamo province

- **Laying hen farm**
 - 95,000 birds reared in cages
- **2 March 2018** → H5N8 HPAI virus confirmed by NRL for AI
- **7 March** Extinction date
- **Epidemiological investigation**
 - The outbreak was identified 75 days after the last outbreak notified in Italy in 2018
 - **20 February**: increased mortality and decrease in feed intake and egg production firstly attributed to a concomitant colibacillosis infection

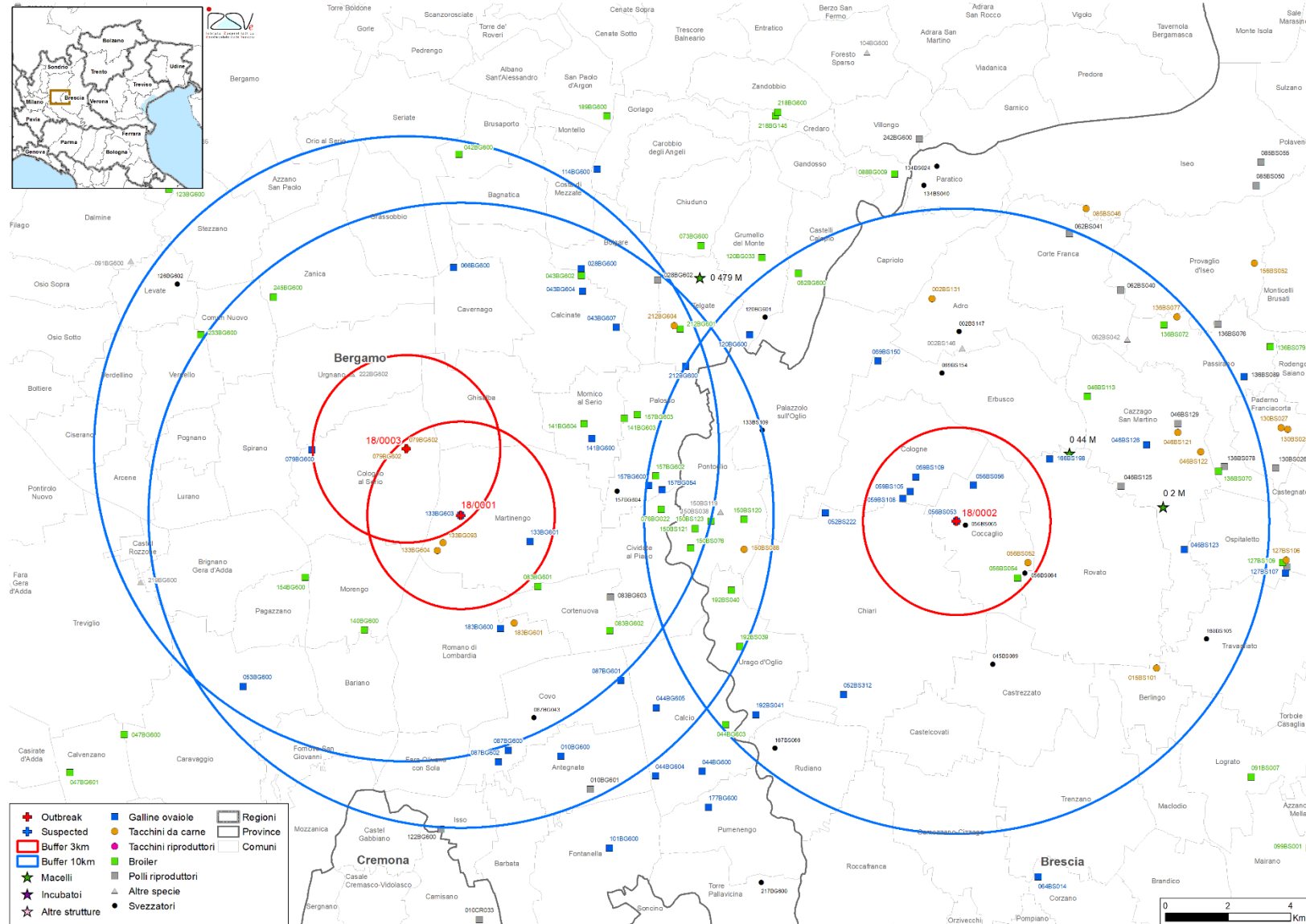
2nd Outbreak – Brescia province

- **Laying hen farm**
 - 30,700 birds reared in cages
- Same production company of the 1st outbreak
- **8 March** H5N8 HPAI positive to official virological tests. Checks were carried out since the farm was identified at risk of AI (same company as the 1st outbreak)
- **11 March** Extinction date
- **Epidemiological investigation**
 - The farm had risk contacts with the 1st outbreak (truck transporting feed and eggs and technician)

3rd Outbreak – Bergamo province

- **Fattening turkey farm**
 - 155,000 birds in 40 sheds
- Located in the 1st outbreak protection zone → under restriction
- **11 March** Suspect: increased mortality
- **12 March** Confirmation date
- **23 March** Extinction date
- **: Epidemiological investigation**
 - The farm is located 500 meters far from the house where the feed lorries that visited the first two outbreaks were kept
 - The farm area is divided into two sub-sections by a road frequently used by the feed lorries kept in proximity to the farm
 - Seven batches of birds, testing AI negative after mandatory pre-movement virological controls, were sent to a slaughterhouse in Verona province from 25 Feb to 2 March, when the farm was put under restriction

HPAI H5N8 outbreaks - Italy 2018



Protection and surveillance zones (3 and 10 km) around the infected holdings were defined, and control measures were implemented as provided for by Council Directive 2005/94/EC.

Outbreak	Extinction date	Measures Protection Zone enforced till	Measures Surveillance Zone enforced till
<u>18/0001</u>	07/03/2018	28/03/2018	06/04/2018
<u>18/0002</u>	11/03/2018	01/04/2018	10/04/2018
<u>18/0003</u>	23/03/2018	13/04/2018	22/04/2018

Control measures

Tracing exercises allowed identifying contact premises

- Strict control measures and enhanced surveillance
- All the identified contact farms tested negative for AI viruses

The production company involved in the first two cases includes other 12 layer and pullet farms. All of them were:

- put under restriction
- tested with negative results for AI

Preventive culling

- A layer farm of the same company which had at-risk contacts with the first two outbreaks, and
- Two fattening turkey farms located in closed proximity to the first outbreak were pre-emptively killed

**A total of 98,446 birds
preventively culled**

Measures provided by Ministerial provision n. 4122 of 19 February 2018 remain in force until 30 April 2018

Specific biosecurity measures applied within the defined **high-risk regions** (Piedmont, Lombardy, Emilia-Romagna, Friuli-Venezia-Giulia, Veneto, Umbria, and Lazio):

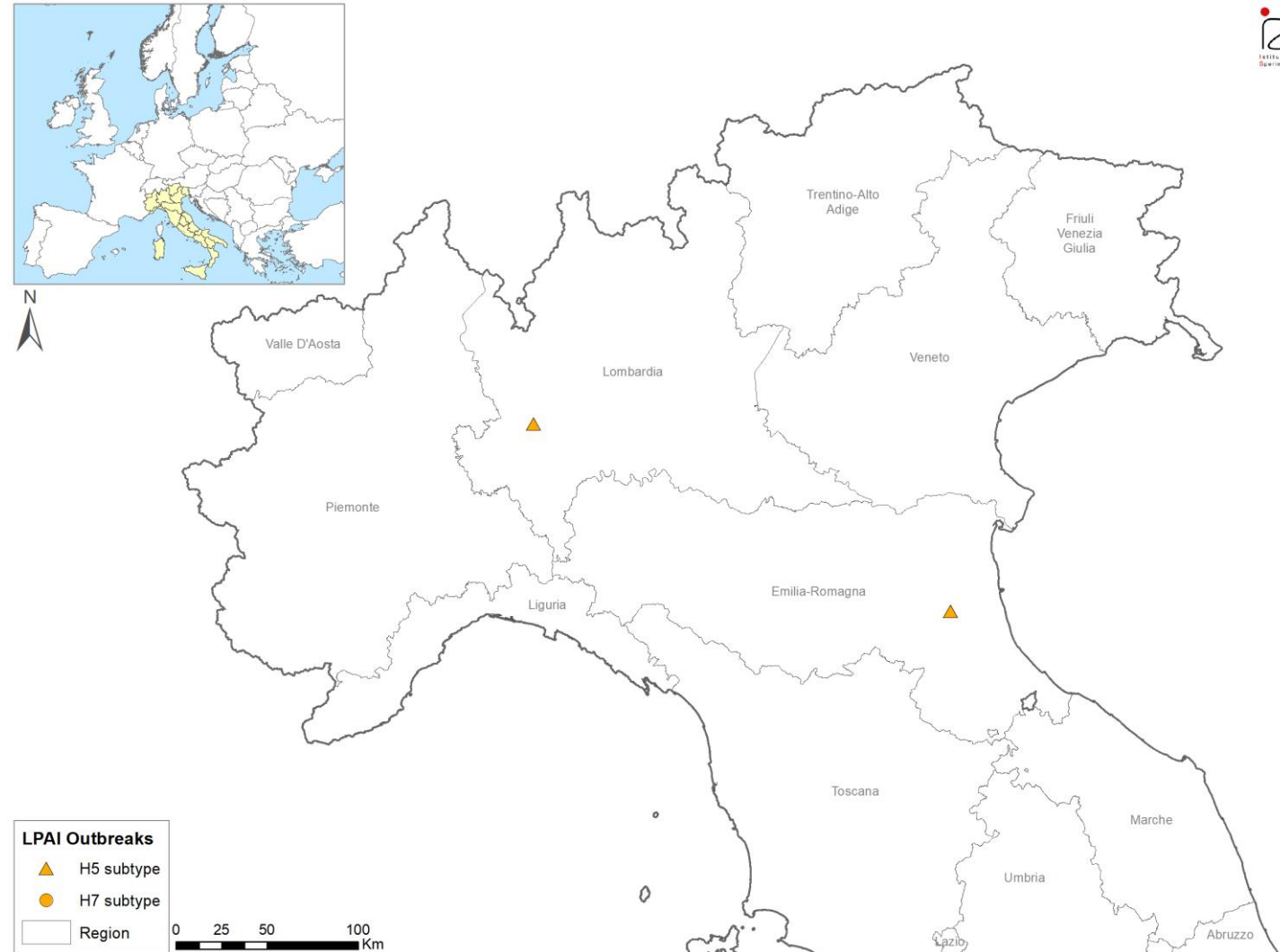
- ban of free-range poultry rearing
 - ban on using superficial water reservoirs (sources that can be accessed by wild birds)
 - feed and bedding materials stocks must be protected from wild birds or other animals
 - ban on exhibitions, fairs, and live-bird markets - A derogation to this measure can be authorized by the Regions and Autonomous Provinces following a risk-based evaluation
 - ban on using live-decoy birds and/or rearing them in such conditions that allow them to have contact with wild birds
- Fattening turkey housing in the high risk areas is allowed only after an official assessment of biosecurity requirements

H5 LPAI outbreaks in Italy 2018

H5 LPAI outbreaks in Italy 2018

Two H5 LPAI outbreaks

Confirmed in February and March



2nd H5N1 LPAI Outbreak – Milan province

- **Mixed-species farm**
 - 1190 birds
- Samples collected on **22 March**, as part of the monitoring activities provided for by the national AI surveillance plan
- **28 March**: confirmed as positive for **LPAI H5N1**
- No clinical symptoms were observed
- Depopulation date: **28 March**
- No poultry farms are present within the implemented 1 km radius restriction zone

Thanks for your attention