



PORTUGAL
INFORMATION ON PAST AND NEW
VACCINATION PLAN FOR AVIAN INFLUENZA IN
A GAME BIRD HOLDING OF
BREEDING MALLARD DUCKS (*Anas platyrhynchos*)

Brussels, 5 March 2015

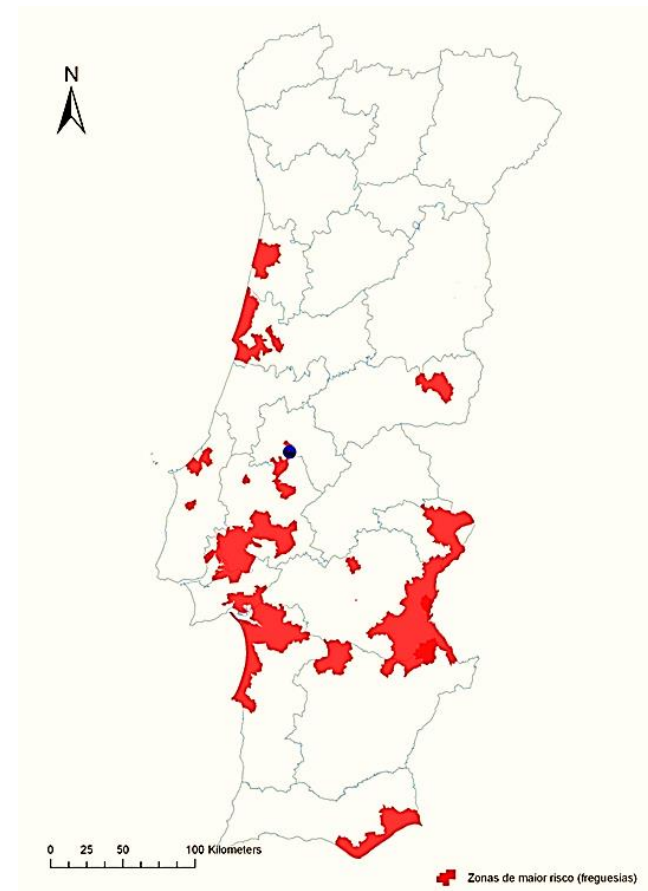
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History

- **Outbreak of LPAI subtype H5** → September 2007
- **Emergency Vaccination Plan (EVP)**, approved by Decision 2008/285/EC
→ applied until 31 July 2008
- **Preventive Vaccination Plan** for 2008/2009 (PVP1), approved by Decision 2008/838/EC → applied until 31 July 2009
- **Preventive Vaccination Plan** for 2010/2011 (PVP2), approved by Decision 2010/189/EU → applied until 31 July 2011
- **Preventive Vaccination Plan** for 2012/2013 (PVP3), approved by Decision 2012/110/EU → applied until 31 July 2013
- **Preventive Vaccination Plan** for 2013/2014 (PVP4), approved by Decision 2013/651/EU → applied until 31 December 2014
- **Preventive Vaccination Plan** for 2015/2016 (PVP5), submitted
→ until 31 July 2018

Criteria justifying a preventive vaccination

- Vaccine is a valuable tool for the reduction of susceptibility to infection, virus shedding and spreading
- Holding is **located in a high risk** area for AI
- Increased risk of becoming infected with AI viruses for this **type of holding**
- **Good results** from the previous vaccination plans



Vaccination Plan

- Monovalent vaccine (subtype H5)
- Subcutaneous administration (0,5 ml)
- Individual identification of vaccinated ducks (wing tags)
- 50 non-vaccinated ducks (sentinels)

- Surveillance and monitoring of the vaccinated flock

- (Surveillance of poultry flocks in the surrounding area, within the framework of the AI surveillance plan)

Wing tags



Sentinels



Vaccination procedures



Surveillance and monitoring of vaccinated flock

- Behavioral (water and food consumption)
- Clinical
- Serological monitoring of vaccinated birds
- Surveillance: virological evaluation (sentinels, diseased or dead birds)

- Behavioural and clinical surveillance
 - Monthly reports sent by the veterinarian to the Official Services
- Serological monitoring of vaccine response
 - 20 blood samples from vaccinated ducks every month
 - Antibodies titer by HI
 - Positivity: titer $\geq 1:16$
 - All samples sent to the National Reference Laboratory
- Surveillance: virological evaluation
 - 15 cloacal swabs + 15 oropharyngeal swabs per month
 - PCR and virus isolation if PCR is positive

Report on the Vaccination Plan 2013-2014 (PVP4)

Flocks 5 and 6

Plan		Date	Vaccine	Flock 5	Flock 6
PVP3	V11	13-12-2012	H5N2	1st application	
PVP3	V12	10-01-2013	H5N2	2nd application	
PVP3	V13	07-06-2013	H5N2	Revaccination	
PVP4	V14	09.01.2014	H5N2	Revaccination	
PVP4	V15	06.11.2014	H5N2		1st application
PVP4	V16	04.12.2014	H5N2		2nd application

	Flock 5	Flock 6
Males	700	1000
Females	2800	3450
Total	3500	4450
Age at 1st application	8 months	8 months
Slaughter date	August 2014	2nd semester 2016

Clinical and behavioral surveillance

Flock	Mortality	Feed intake	Water intake	Growth
5	Normal (< 0,1%)	Normal	Normal	Normal
6	Normal (< 0,1%)	Normal	Normal	Normal

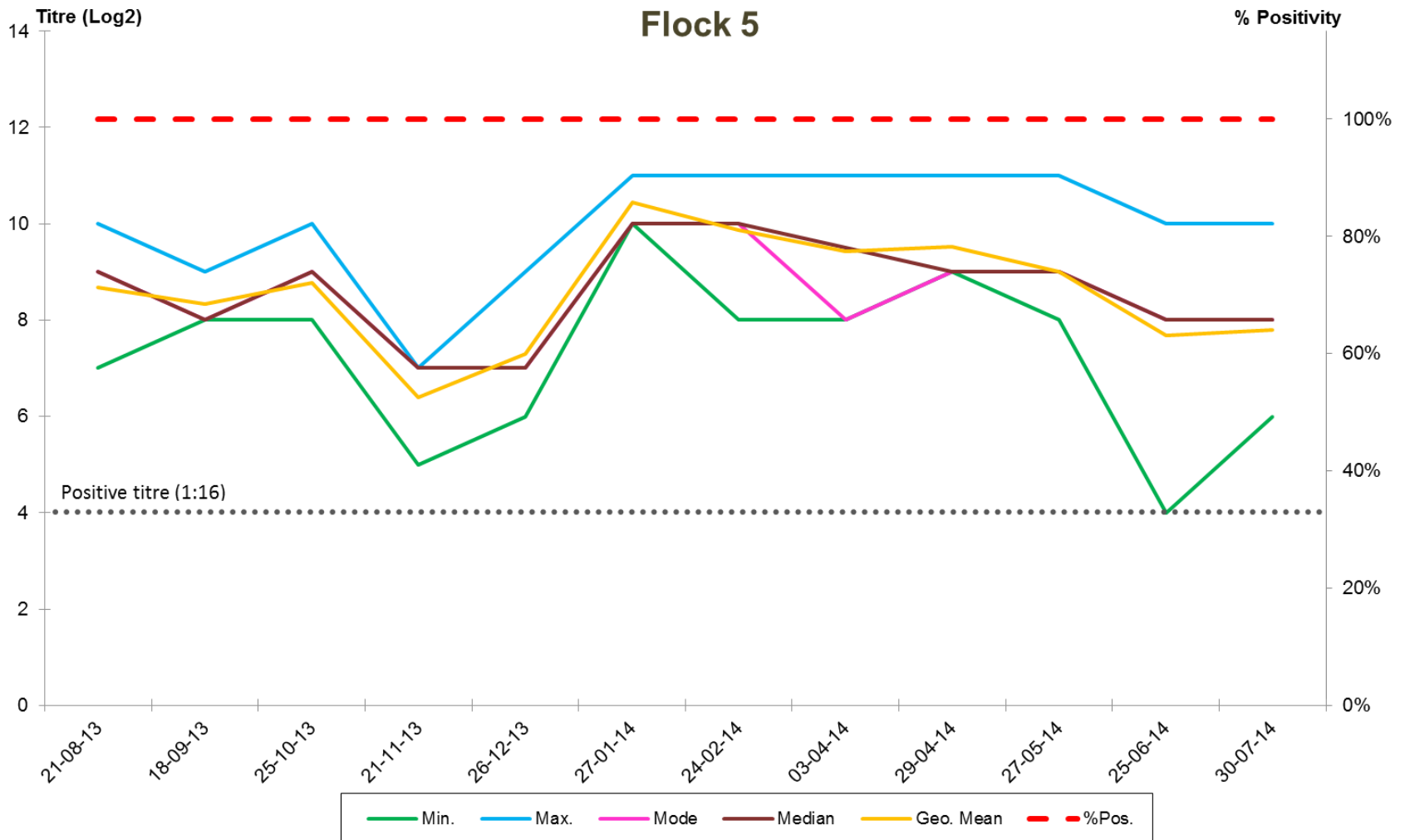
Serological monitoring of vaccine response

	Flock 5	Flock 6
Min.	1:16 - 1:1024	1:8 - 1:32
Max.	1:128 - 1:2048	1:64 - 1:512
Mode	1:128 - 1:1024	1:8 - 1:128
Median	1:128 - 1:1024	1:16 - 1:128
Geo.Mean	1:64 - 1:1024	1:16 - 1:128
%Positivity	100%	60% - 100%

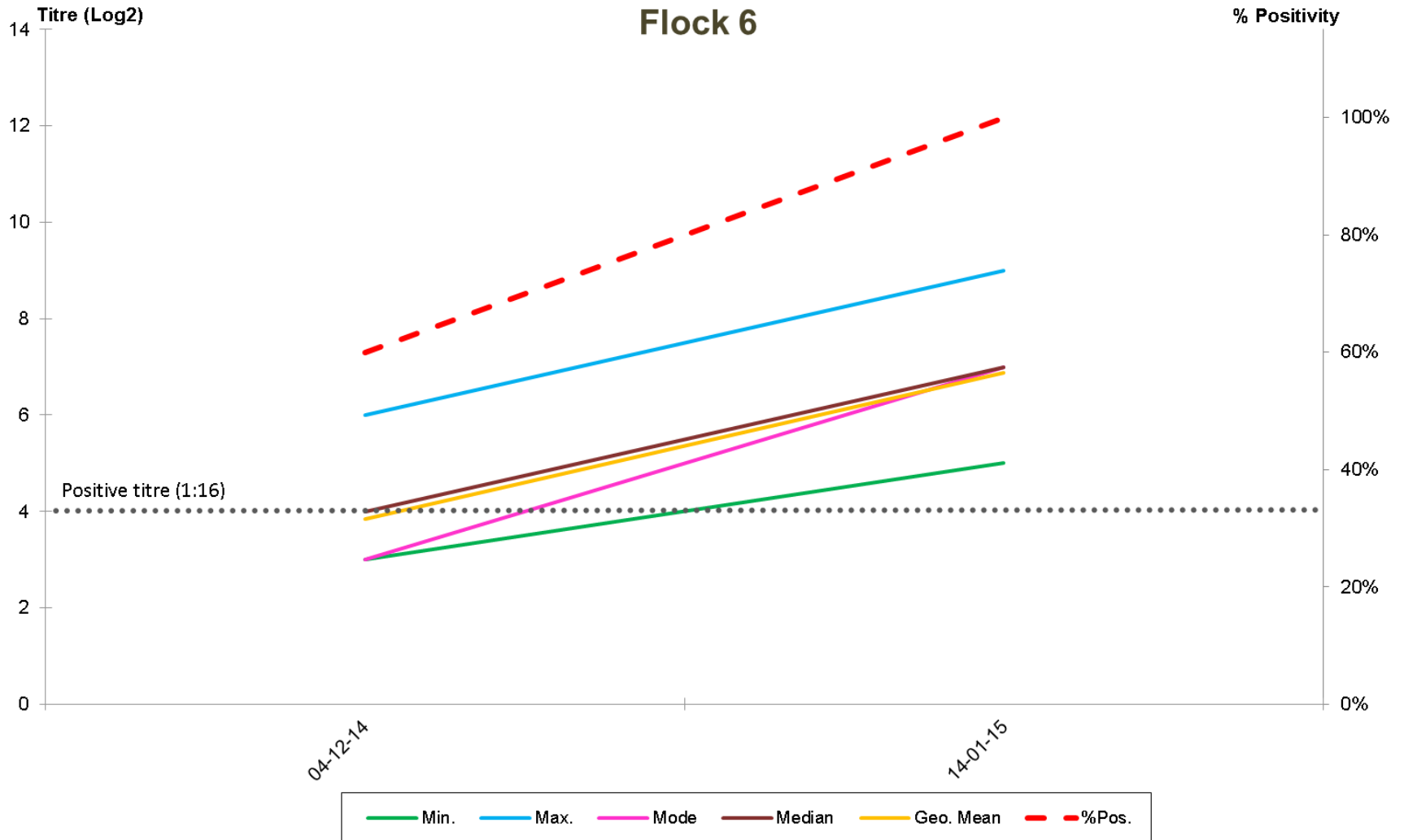
July 2013 - Aug 2014

Dec 2014 – Jan 2015

Serological monitoring of vaccine response



Serological monitoring of vaccine response



Surveillance results

Samples	Flock 5	Flock 6
Sentinels	360	60
Dead ducks	0	3
Poultry flocks in the surrounding area	140	

→ All results were negative

Vaccination Plan for 2015-2018 (PVP5)

Vaccination Plan

Plan	Provisional Date	Flock 6
PVP5	May 2015	Revaccination
PVP5	November 2015	Revaccination
PVP5	May 2016	Revaccination

	Flock 6
Males	± 1.000
Females	± 3.550
Total	± 4.450

→ Continue vaccination of subsequent breeding flocks up to July 2018

Movement restrictions

- **Vaccinated mallard ducks will not be moved to other poultry holdings within the country or dispatched to other Member States**
- After their reproductive period, the vaccinated ducks will be killed humanely on the holding and their carcasses safely disposed off
- The descendants that leave the holding will be, at least, 4 months old and only for restocking of wild game supplies

THANK YOU FOR YOUR ATTENTION

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