

# HPAI H5N8 Sweden 2016



Swedish Board of Agriculture,  
Jönköping, Sweden



# Outbreak Summary

- 21 November 2016: Increased mortality noted.
- 22 November: Private vet reports suspicion of ND or AI, following increased mortality and symptoms. Official investigation initiated. Official sampling of suspected premises. Restrictions on the farm.
- 23 November (night): H5 avian influenza identified by PCR.
- 24 November: Premises declared to be an infected premises.  
Protection zone and Surveillance zone
- 24 November: Culling of poultry commenced.
- 30 November: Culling planned to be completed.
- 2 December: Preliminary Cleansing and disinfection planned to be completed. Carcase disposal planned to be completed.





Poultry IP1  
H5N8

Wild sea duck  
H5N8

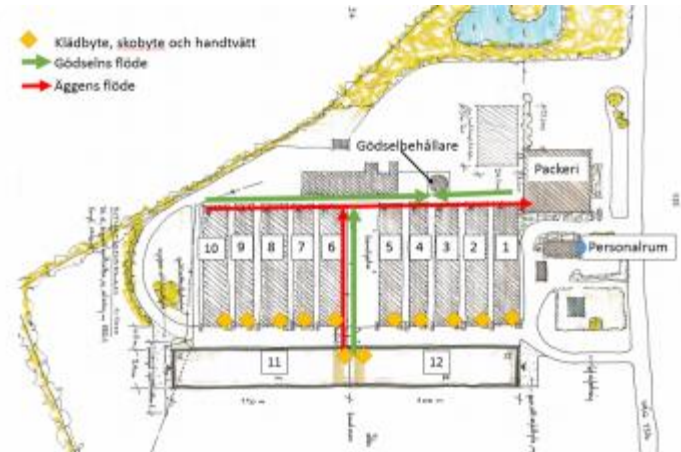


# IP 1 (infected premises 1)

- Commercial herd, laying hens, in the municipality of Helsingborg, Skåne.
- Ca 210 000 hens in 12 houses.  
Age 28 – 81 weeks
- Houses 1-6 and 11, birds in enriched cages.  
Houses 7-10 and 12, free-range birds (no outdoor)
- Symptoms: 21/11 house 12 some increased mortality, 22/11 increased mortality, sick animals debilitated with poor general condition, tremors in agonal animals  
Some birds had atactic movements.







## Diagnostic test results

- 5 animals from house 12  
Real-time PCR positive 2016-11-23  
Virus sequencing (partial sequence data (300 bases) )  
positive --> H5

Virus isolation, whole genome sequencing is ongoing,  
28/11 --> H5N8 (much alike the H5N8 circulating in Europe)  
sequencing is ongoing

- 20+ 20 samples for serological test from house 7-8  
all samples negative  
(blocking ELISA)



# Measures

- Activation of the Crisis organisation with NDCC (SBA Jönköping) and LDCC (25/11 at emergence service in Helsingborg)
- Measures according to Directive 2005/94/EC
- Stamping out policy
- Zoning 24/11
  - protection zone (3 km) - no poultry farms
  - surveillance zone (10 km) - one commercial farm and one small holding (100 poultry),
- Whole country: all poultry kept indoors, exhibitions, competitions, markets etc forbidden. 21/11
- Cleaning and disinfection
- Official destruction of animal products
- Official destruction of carcasses, by-products and waste
- Tracing contacts and products
- All poultry holdings in the zones have been contacted



## Measures cont.

- Zoonosis cooperation group
- Trade  
all consignments of live poultry, hatching eggs and dayold chickens since 30 October have been examined;  
no consignments from protection zone  
a number of consignments from surveillance zone
- No export of live poultry, hatching eggs and nonheat-treated poultry products from the municipalities Helsingborg, Ängelholm, Bjuv and Åstorp







# Reporting & information



## International

- ADNS
- OIE / WAHIS
- European Commission
- CVO Nordic countries
- Letters to third countries

## National

- Information to OV's
- Webb, Media
- Zoonosis cooperation group
- Farmers organisation, companies involved and stakeholders

”The work is done in close cooperation with other relevant stakeholders, authorities, the COM and industry organizations”



## Decisions, NDCC

## IP 1 (LDCC Skåne)

21/11	<ul style="list-style-type: none"> <li>• Protection level 2 in the whole country</li> </ul>	
22/11	<ul style="list-style-type: none"> <li>• Suspicion sea duck (Common goldeneye) south Skåne</li> <li>• Suspicion commercial farm with laying hens</li> </ul>	Restrictions on the farm
23/11	<ul style="list-style-type: none"> <li>• During night: confirmation influenza virus H5</li> </ul>	
24/11	<ul style="list-style-type: none"> <li>• Confirmation influenza H5</li> <li>• Protection zone and surveillance zone</li> </ul>	Culling house 11
25/11	<ul style="list-style-type: none"> <li>• LDCC activated</li> </ul>	Culling house 12
26/11		Culling house 1-2
27/11		Culling house 3-5
28/11	<ul style="list-style-type: none"> <li>• Confirmation H5N8</li> </ul>	
29/11		Culling house 7-8
30/11		Culling house 9-10

## HPAI in a wild bird

- Within the AI-surveillance program in wild birds a common goldeneye from Vellinge municipality was analyzed by PCR and found positive for HPAI H5N8 on the 23rd of November. Analysis of 300 bases over the cleavage site shows 100% similarity with the Danish and German findings of HPAI H5N8 from earlier this month.



Thank you for attention!



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