

Newcastle disease (ND) summer 2014 - Sweden is again free of ND

Swedish Board of Agriculture
11-12 September 2014



Background



- Sweden has for many years applied a strict non-vaccination policy as regards ND; Sweden also has the status as a non-vaccinating country as regards ND according to EU legislation
- Only single outbreaks; about every second year
- Previous outbreak 2011; 2 premises

Three Outbreaks 2014

IP (Infected premises) 1: confirmed 19 June, Norrköping municipality

- 24.000 indoor free ranging layers
- Drop in egg production
- Some discoloration of eggs
- Thin shelled eggs
- No increase in mortality
- Restriction zones established 19 June
- Culling 20 June, preliminary disinfection 23 June
- Zones lifted 24 July



Three Outbreaks 2014

SP (Suspected premises) 1, put under restrictions 17 June, repeated testing without confirmation of ND, confirmed ND-positive later, in August (after culling and disinfection), i.e. IP 3: Linköping municipality

- 14.000 laying hens kept indoors in enriched cages
- Drop in egg production
- Some discoloration of eggs
- Slowly increasing number of thin shelled eggs
eggs
- No increase in mortality
- National legislation adopted 28 June in order to take more stringent measures; corresponding to EU legislation regarding ND
- Restriction zones in accordance with national legislation established 28 June
- Culling 1 July, preliminary disinfection 1 July
- National Restriction zones lifted 2 August

Three Outbreaks 2014

IP 2: confirmed 4 July, Motala municipality

- 16.300 indoor free ranging layers
- Drop in egg production
- Some discoloration of eggs
- Thin shelled eggs
- No increase in mortality
- Restriction zones established 4 July
- Culling 4 July, preliminary disinfection 5 July
- Zones lifted 6 August








48,3%



Summary ND Sweden summer 2014

Note: All restrictions lifted by 6 August 2014

Legend

-  Infected premises (IP1,2)
-  Suspected/later confirmed premises (SP1/IP3)
-  Municipalities



The virus

It has not yet been possible to determine where the infection originated, but wild birds cannot be ruled out. The 2014 virus that have been possible to sub-sequence is similar to those in previous ND outbreaks in Sweden 2008 and 2009. The 2014 virus belongs to *aPMV-1 Class II genotype VIIb* (also called lineage 5b). Genotype VIIb are well adapted to wild water birds and has previously been found in wild birds and domestic poultry (turkeys) in the Nordic countries.

Complete genome sequencing of the isolates is on-going. Further attempts to isolate the virus is still on-going in cooperation with the EU reference lab.



End of outbreak

All measures have been carried out in accordance with EU legislation and additional national precautionary legislation

The last restriction zones were lifted 6 August 2014

There are no indications of any further spread of ND in Sweden

In accordance with EU legislation, Sweden is again to be regarded free of ND as of 6 August 2014

