

Vaccination programme for birds kept in zoos against avian influenza submitted by Sweden for approval by the commission Rev.1

Member state: Sweden

Date: 7 March 2006

Disease: avian influenza

Animal species: birds kept in zoos

Period: From March 2006

Background

In accordance with Commissions Decision 2005/744/EC of 21 October 2005, vaccination can be a way to protect birds kept in approved zoos against avian influenza. Therefore, Sweden introduces this vaccination plan to the Commission for approval. If possible, Sweden will start a vaccination campaign in the coming weeks. This vaccination fits into the context of the increased threat of the highly pathogenic influenza virus of subtype H5N1.

The recent spread of this virus in to the European union suggest that all Member States are at risk for detecting avian influeza in wild birds. Hence, all means that are required should be implemented in order to reduce the risks of an introduction of avian influenza in bird populations in the European Union.

The migratory flyways of wild birds, which are probably one of the ways of spreading the virus whithin the EU territory, are crossing Swedish territory. Close to many Swedish zoos there are lakes and fields where migrating birds rest during nights on their way to mating places.

Many birds kept in zoos cannot be kept indoors without serious effects to their well being. There are many species in zoos that are part of a worldwide progamme to save endangered species. The vaccination of susceptible birds kept in zoos is appropriate to make an effort to prevent infection and death of these birds that are part of the genetic pool.

The efficiency of the vaccine on other species than poultry has not been proved enough. In approved zoos the birds are kept under constant veterinary supervision in a controlled and limited area. The vaccination campaign set up in zoos is a pilot project. Hence, the uncertainties it involves must be accepted.

The aim of the vaccination plan is to reduce the risk of introduction of avian influenza to birds kept in Swedish zoos and to protect the birds from infection with avian influenza virus. A legal base for the vaccination of birds kept in approved zoos has been created with Decision 2005/744/EC of 21 October 2005 and in the future by SANCO/10168/2005.

A. Zoos participating to the vaccination campaign

The Swedish zoos have been contacted in order to draw up an inventory of birds that are in need of a preventive vaccination.

A list of zoos and birds that are listed for vaccination is presented in Annex I. The birds kept in adequate biosecurity conditions do not need to be vaccinated. The zoo participates to the programme on a voluntary basis. All expenses relating to the vaccination will be covered by the zoo.

B. Choice of the vaccine

Nobilis ® Influenza H5N2 (INTERVET)

The vaccine will be distributed via the National Veterinary Institute (SVA). The National Veterinary Institute has made a reservation for vaccine to be delivered to Sweden and to be distributed by the National Veterinary Institute.

C. Vaccination

Implementation:

- The vaccination in the zoos will be conducted within 96 hours.
- The vaccination will be carried out under supervision of an official veterinarian. Vaccinated birds must be individually identifiable and, whenever possible, bear an indelible identification showing their individual status
- Blood samples will be taken from birds that are vaccinated prior to the first vaccination and 30 days after the second vaccination for testing the serum titres against avian influenza. The serological tests will be conducted at the National Veterinary Institute.
- Revaccination will take place after 4 - 6 weeks.
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- A detailed list of all vaccinated birds, including their individual identification, must be kept in the zoo and sent to The Swedish Board of Agriculture. This list must be kept for 10 years

Restrictions:

- Vaccinated birds shall not be traded or moved between zoos in Sweden or to the Member States unless written permission is granted from The Swedish Board of Agriculture or after specific authorization of the Member State in question.
- Products of vaccinated birds will not enter the food chain or be traded.

Duration:

- The duration of this vaccination programme is limited to 6 months because a marketing authorization has not been issued for the vaccine. A possible renewal of the programme will be evaluated in due time.

Vaccination protocol:

- Prior to the vaccination the zoo must send the vaccination protocol to the Swedish Board of Agriculture containing
- Name and adress of the veterinarian responsible for the vaccination and bloodsampling of the zoobirds.
- Date and location of vaccination
- List of birds and their indentification and name of the species in Swedish and Latin.

- Estimated amount of vaccine needed
- The vaccination can only take place after a written permission from The Swedish Board of Agriculture and under supervision of an official veterinarian. After the vaccination the zoos have to send a report to the Swedish Board of Agriculture containing the data above.
- The flasks containing vaccine must be sent back to the National Swedish Institute after each vaccination. Together with the flasks a register on the identity, the species and the dates of vaccination of the birds must be sent. A feedback with all remarks or observations, including possible secondary effects, must be sent as well.

D. Reporting to the Commission

A detailed report on the carrying out of the programme, including the results of the carried out tests, will be submitted to the Commission and to the Member States in the frame of the Standing Committee on the Food Chain and Animal Health.

Vaccination – djurparksfåglar Annex I

Borås Djurpark

Box 502

403 13 BORÅS

Större flamingo (<i>Phoenicopterus ruber roseus</i>)	7 st
Nilgås (<i>Alopochen aegyptiacus</i>)	2 st
Humboldtpingvin (<i>Spheniscus humboldti</i>)	30 st
Påfågel (<i>Pavo cristatus</i>)	6 st
Struts (<i>Struthio camelus</i>)	5 st
Trumpetarnäshornsfågel (<i>Bycanistes bucinator</i>)	2 st
Hjälmpärlothöna (<i>Numida meleagris</i>)	10 st
Svensk blå anka (<i>Anas platyrhynchos dom.</i>)	6 st
Orusthöna (<i>Gallus gallus dom.</i>)	<u>6 st</u>
	74 st

Furuviiksparken

Box 672

801 27 GÄVLE

Berguv	2 st
Emu	3 st
Mörkröd ara	2 st
Blågul ara	1 st
Amazon, grön	1 st
Svart svan	2 st
Blå påfågel	9 st
Ölandsgås	4 st
Hedemora höna	7 st
Hjälmpärlothöna	<u>6 st</u>
	37 st

Kolmårdens Djurpark

618 92 KOLMÅRDEN

Brun pelikan (<i>Pelicanus occidentalis</i>)	2 st
Euroafrikansk flamingo (<i>Phoenicopterus roseus</i>)	37 st
Humboldtpingvin (<i>Spheniscus humboldti</i>)	36 st
Krontrana (<i>Balearica pavonina</i>)	4 st
Maraboustork (<i>Leptotilos crumeniferus</i>)	2 st
Påfågel (<i>Pavo cristatus</i>)	2 st
Silkeshöns (<i>Gallus domesticus</i>)	7 st
Nandu (<i>Rhea americana</i>)	8 st

forts. Kolmårdens djurpark

Struts (<i>Struthio camelus</i>)	10 st
Harrisvråk (<i>Parabuteo unicinctus</i>)	4 st
Slagfalk (<i>Falco biarmicus</i>)	5 st
Vitryggad gam (<i>Gyps africanus</i>)	2 st
Soldatara (<i>Ara militaris</i>)	2 st
Marknäshornsfågel (<i>Bucorvus leadbeateri</i>)	2 st
Berguv (<i>Bubo bubo</i>)	1 st
Fjälluggla (<i>Nyctea scandiaca</i>)	<u>1 st</u>
	139 st

Lycksele Djurpark**921 81 LYCKSELE**

Berguv (<i>Bubo bubo</i>)	2 st
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Nordens Ark**Åby säteri****450 46 Hunnebostrand**

Berguv (<i>Bubo bubo</i>)	2
Fjälluggla (<i>Nyctea scandiaca</i>)	1
Lappuggla (<i>Strix nebulosa</i>)	4
Slaguggla (<i>Strix uralensis</i>)	2
Tornuggla (<i>Tyto alba</i>)	1
Laysand (<i>Anas laysanensis</i>)	2
Röd Halsad (<i>Branta ruficollis</i>)	1
Fjällgås (<i>Anser erythropus</i>)	14
Klippfasan (<i>Alectoris barbara</i>)	5
Glasögon trana (<i>Grus vipio</i>)	1
Vit Stork (<i>Ciconia ciconia</i>)	4
Orange tofs (<i>Cacatua sulphurea citrinocistrata</i>)	2
Molluck (<i>Cacatua moluccensis</i>)	8
Pilgrimsfalk (<i>Falco pelegrinus pelegrinus</i>)	30
Orusthöns (<i>Gallus gallus</i>)	13
Gotlandshöns (<i>Gallus gallus</i>)	7
Svarthöns (<i>Gallus gallus</i>)	18
Ankor (<i>Anas platyrhynchos dom</i>)	7
Ölandsgäss (<i>Anser anser</i>)	<u>5</u>
	127St

Orsa Grönklitt AB
Box 133
794 22 ORSA

Berguv (*Bubo bubo*) 2 st

Parken Zoo i Eskilstuna

631 86 ESKILSTUNA

Nandu	8 st
Pelikan	5 st
Vit stork	2 st
Kohäger	10 st
Maraboustork	6 st
Röd ibis	3 st
Flamingo	50 st
Mandarinand	20 st
Egyptisk gås	9 st
Bahamas and	5 st
Chilebläsand	2 st
Vildkalkon	10 st
Tamhöna	5 st
Påfågel	10 st
Gampärlhöna	5 st
Hjälpärlhöna	7 st
Krontrana	6 st
Pärlhalsduva	20 st
Papegojor	50 st
Tukaner	2 st
Bulbyl	1 st
Mynahskarv	10 st
Skatstare	<u>5 st</u>
	251 st

Skansen-Akvariet

115 93 STOCKHOLM

Rödryggad amazon (<i>Amazona festiva</i>)	2 st
Rödnäbbad tukan (<i>Ramphastos tucan</i>)	1 st
Vävarstare (<i>Orupendula</i>)	1 st
Svarthuvad vitbukspapegoja (<i>Pionites melanocephala</i>)	<u>5 st</u>
	9 st

Slottsskogens Djurpark
Park- och Naturförvaltningen
Box 177
401 22 GÖTEBORG

Afrikansk flamingo (<i>Phoenicopterus ruber roseus</i>)	11 st
Kubansk flamingo (<i>Phoenicopterus ruber ruber</i>)	4 st
Chileflamingo (<i>Phoenicopterus chilensis</i>)	4 st
Östafrikansk krontrana (<i>Balearica regulorus</i>)	1 st
Humboldtpingvin (<i>Spheniscus humboldti</i>)	27 st
Blå påfågel (<i>Pavo cristatus dom.</i>)	12 st
Vit pelikan (<i>Pelecanus onocrotalus</i>)	2 st
Strippgås (<i>Anser indicus</i>)	4 st
Snögås (<i>Anser caerulescens</i>)	2 st
Svart svan (<i>Cygnus atratus</i>)	1 st
Knölsvan (<i>cygnus olor</i>)	2 st
Blågås (<i>Chen Caerulescens</i>)	3 st
Skånegås (<i>Anser anser</i>)	<u>5 st</u>
	78 st

Stiftelsen Skansen
Box 27807
115 93 STOCKHOLM

Önskar vaccinera **226 st** fåglar.

Skånes Djurpark
Jularp 3135
243 93 HÖÖR

Storskarv (<i>Phalacrocorax carbo</i>)	2 st
Gråhäger (<i>Ardea cinerea</i>)	1 st
Vit stork (<i>Ciconia ciconia</i>)	6 st
Bläsgås (<i>Anser albifrons albifrons</i>)	4 st
Skånegås (<i>Anser anser</i>)	5 st
Fjällgås (<i>Anser erythropus</i>)	2 st
Stjärtand (<i>Anas acuta</i>)	3 st
Bläsand (<i>Anas penelope</i>)	2 st
Svensk gul anka (<i>Anas platyrhynchos dom.</i>)	6 st
Svensk blå anka (<i>Anas platyrhynchos dom.</i>)	3 st
Blekingeanka (<i>Anas platyrhynchos dom.</i>)	4 st
Dansk cajunanka (<i>Anas platyrhynchos dom.</i>)	2 st
Snatterand (<i>Anas strepera</i>)	2 st
Brunand (<i>Aythya ferina</i>)	5 st

Vigg (<i>Aythya fuligula</i>)	2 st
Gravand (<i>Tadorna tadorna</i>)	4 st
Kungsörn (<i>Aguila chrysaetos chrysaetos</i>)	2 st
Orre (<i>Tetrao tetrix tetrix</i>)	2 st
Tjäder (<i>Tetrao urogallus</i>)	2 st
Rapphöna (<i>Perdix perdix</i>)	2 st
Svensk dvärgrashöna (<i>Gallus gallus dom.</i>)	6 st
Skånsk blommehöna (<i>Gallus gallus dom.</i>)	8 st
Jaktfasan (<i>Phasianus colchicus dom.</i>)	3 st
Berguv (<i>Bubo bubo</i>)	4 st
Pärluggla (<i>Aegolius funereus</i>)	2 st
Fjälluggla (<i>Nyctea scandiaca</i>)	2 st
Kattuggla (<i>Strix aluco</i>)	3 st
Lappuggla (<i>Strix nebulosa</i>)	2 st
Slaguggla (<i>Strix uralensis</i>)	2 st
Tornuggla (<i>Tyto alba</i>)	<u>3 st</u>
	96 st

Universeum
Box 143 65
400 20 Göteborg

Blåmes (<i>Parus caeruleus</i>)	6
Skäggdopping (<i>Podiceps cristatus</i>)	1
Talgoxe (<i>Parus major</i>)	12
Amaziliakolibri (<i>Amazilia amazilia</i>)	1
Blågrå tangara (<i>Thraupis episcopus</i>)	2
Blågrön honungssugare (<i>Dacnis cayana</i>)	1
Blåhuvad pionuspapegoja (<i>Pionus menstrus</i>)	2
Blåhuvad tangara (<i>Tangara cyanicollis</i>)	11
Brungul tangara (<i>Tangara cayana</i>)	1
Dominikanerkardinal (<i>Paroaria dominicana</i>)	2
Grönryggad sparvpapegoja (<i>Forpus passerinus passerinus</i>)	2
Guldnackad tangara (<i>Tangara ruficervix</i>)	1
Guldtangara (<i>Tangara arthus</i>)	1
Gulgrön stenknäck (<i>Caryothaustes canadensis</i>)	1
Gulgrön tangara (<i>Tangara schrankii</i>)	2
Mjölnamazon (<i>Amazona farinosa chapmani</i>)	2
Purpurhonungssugare (<i>Cyanerpes caeruleus</i>)	1
Solrall (<i>Eurypyga helias</i>)	1
Svart tangara (<i>Tachyphonus rufus</i>)	2
Svarthuvad honungssugare (<i>Chlorophanes spiza</i>)	3
Svarthuvad tangara (<i>Tangara heinei</i>)	2
Svartmaskad honungssugare (<i>Dacnis lineata</i>)	2
Sydamerikansk jakana (<i>Jacana jacana</i>)	1
Turkostangara (<i>Tangara mexicana</i>)	<u>6</u>
	66 St

**Ystad djurpark
Hallonlund Gård
271 91 Ystad**

Struts (<i>Struthio camelus</i>)	2
Nandu (<i>Rhea americana</i>)	4
Emu (<i>Dromaius novaehollandiae</i>)	2
Svart Svan (<i>Cygnus atratus</i>)	2
Goffins kakadua (<i>Cacatua goffini</i>)	1
Mindre gultofskakakadua (<i>Cacatua sulphurea</i>)	1
Blåpannad amazon (<i>Amazona aestiva</i>)	3
Gulkindad amazon (<i>Amazona autumnalis</i>)	1
Blågul ara (<i>Ara ararauna</i>)	1
grönvingad ara (<i>Ara chloropterus</i>)	2
ljusröd ara (<i>Ara macao</i>)	1
morhuvad papegoja (<i>Poicephalus senegalus</i>)	<u>1</u>
	21 St

**Ölands djurpark
386 90 Färjestaden**

Papegojfåglar	29
Uvar	7
Storkar	7
Påfågel	6
Strutsfågel	15
Flamingo	<u>28</u>
	92 St

Summa totalt: 1 199 Fåglar