

## Follow-up report No.: 3

Report reference: , OIE Ref: 4619, Report Date: 02/12/2006, Country: Pakistan

### Report Summary

<b>Disease</b>	Highly pathogenic avian influenza	<b>Animal type</b>	Terrestrial
<b>Causal Agent</b>	Avian influenza virus	<b>Serotype(s)</b>	H5N1
<b>Clinical Signs</b>	Yes	<b>Reason</b>	First occurrence of listed disease
<b>Date of confirmation of Event</b>	27/02/2006	<b>Date of Start of Event</b>	23/02/2006
<b>Date of report</b>	02/12/2006	<b>Diagnosis</b>	Clinical, Laboratory (basic), Laboratory (advanced)
<b>Number of reported outbreaks</b>	Submitted= 12, Draft= 0	<b>Name of Sender of the report</b>	Dr R. H. Usmani
<b>Address</b>	3rd Floor	<b>Position</b>	Animal Husbandry Commissioner/CVO Government of Pakistan
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### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 46)	33,7677	72,9725	17/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	9000	180	80	8920	0		
<b>Affected Population</b>		poultry at broiler and breeder farms.						

### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 48)	33,8012	73,0059	16/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	15000	250	130	14870	0		
<b>Affected Population</b>		poultry at broiler and breeder farms.						

### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Sehala (plot No. 45)	33,7677	73,0059	12/04/2006	04/08/2006

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	Animals	3800	400	350	3450	0
Affected Population		poultry at a layer farm.				

#### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 50)	33,8012	72,9056	17/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	1700	65	43	1657	0		
Affected Population		poultry at broiler and breeder farms.						

#### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Nelore 2	33,7677	72,939	01/07/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	8000	6570	2800	5200	0		
Affected Population		poultry at a broiler farm.						

#### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Nelore 1	33,7343	72,9056	01/07/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	12000	9752	4200	7800	0		
Affected Population		poultry at a broiler farm.						

#### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Dhoke Kazim Chaudary Afzal	33,8012	72,9725	20/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	4500	55	21	4479	0		
Affected Population		poultry at broiler and breeder farms.						

#### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 27)	33,8012	72,9056	20/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	11000	215	120	10880	0		

Affected Population	poultry at a layer farm.
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### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 32)	33,8012	72,939	17/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	2200	115	78	2122	0		
Affected Population poultry at broiler and breeder farms.								

### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY			Farm	Tarlai (plot No. 44)	33,8012	72,939	17/04/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	4500	195	110	4390	0		
Affected Population poultry at broiler and breeder farms.								

### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER			Farm	Abbottabad	34,16813	73,18532	23/02/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	16000	1045	875	15125	0		
Affected Population								
poultry at a breeder farm. The clinical signs observed in affected flocks were difficult/laboured breathing, whistling sounds, cyanotic comb/wattle and drop in production.								

### Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER			Farm	Charsada	34,16995	71,70724	23/02/2006	04/08/2006
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	10450	2420	2000	8450	0		
Affected Population								
poultry at a layer farm. The clinical signs observed in affected flocks were difficult/laboured breathing, whistling sounds, cyanotic comb/wattle and drop in production.								

### Outbreak summary: Total outbreaks = 12 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	98150	21262	10807	87343	0

### Epidemiology

Epidemiological comments
Other control measures undertaken:

- ban on interprovincial movement of poultry and poultry products;

- ban on the import of poultry and poultry products from avian influenza infected/suspected countries;

- awareness campaign.

60 farm workers as well as people randomly selected in the vicinity of the affected farms were tested and found to be negative for avian influenza. Fifteen samples were collected from nearby poultry farms; they were all negative.

<b>Source of Infection</b>	• Contact with wild Species
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## Control Measures

<b>Applied</b>	<ul style="list-style-type: none"> <li>• Movement control inside the country</li> <li>• Vaccination in response to the outbreak (s)</li> <li>• Disinfection of infected premises/establishment(s)</li> <li>• Quarantine</li> <li>• Stamping out</li> <li>• Control of wildlife reservoirs</li> <li>• Zoning</li> </ul>	<b>To be applied</b>	• No Planned Control Measures
		<b>Vaccination Prohibited</b>	No
<b>Animals treated</b>	No		

## Vaccination in response to outbreak

Province	Species	Number Vaccinated	Details
ISLAMABAD CAPITAL TERRITORY	Birds	3500000	killed vaccine against avian influenza virus H7N3, H7N1 and H9N2 serotypes

## Country / Zone

<b>Country or zone</b>	the whole country
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## Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Animal Sciences Institute (national reference laboratory for avian influenza), Islamabad	Birds	haemagglutination (HA) test	04/07/2006	Positive
National laboratory	National Animal Sciences Institute (national reference laboratory for avian influenza), Islamabad	Birds	haemagglutination inhibition test (HIT)	04/07/2006	Positive
National laboratory	National Animal Sciences Institute (national reference laboratory for avian influenza), Islamabad	Birds	polymerase chain reaction (PCR)	04/07/2006	Positive
National laboratory	National Animal Sciences Institute (national reference laboratory for avian influenza), Islamabad	Birds	virus isolation	04/07/2006	Positive
National laboratory	National Animal Sciences Institute (national reference laboratory for avian influenza), Islamabad	Birds	agar-gel immunodiffusion (AGID)	04/07/2006	Positive

## Future Reporting

What further reports will be submitted in relation to this event? The event is resolved. No more reports will be submitted.

## Outbreak map

