

Follow-up report No.: 8

Report reference: , OIE Ref: 6589, Report Date: 12/12/2007, Country: Pakistan

Report Summary

Disease	Highly pathogenic avian influenza	Animal type	Terrestrial
Causal Agent	Highly pathogenic avian influenza virus	Serotype(s)	H5N1
Clinical Signs	Yes	Reason	Reoccurrence of a listed disease
Date of confirmation of Event	04/02/2007	Date of Start of Event	01/02/2007
Date of report	12/12/2007	Date Submitted To OIE	12/12/2007
Diagnosis	Laboratory (advanced), Necropsy	Date Of Last Occurrence	07/2006
Number Of Reported Outbreaks	Submitted= 32, Draft= 0	Name of Sender of the report	Dr R. H. Usmani
Address	3rd Floor	Position	Animal Husbandry Commissioner/CVO Government of Pakistan
	38-Khalid Plaza	Fax	(92-051) 922 13 57
	Jinnah Avenue, Blue Area Islamabad	Entered by	Mme Margarita Alonso
Telephone	(92-051) 920 50 92		
Email	usmanirh@hotmail.com		

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Manshera	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Manshera	Farm	Lohar Banda	34,404	73,121	01/02/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	187	100	100	87	0		
Affected Population		backyard poultry including fancy birds like peacocks, pheasants, pigeons, ducks and parakeets.						

Outbreak (other report - submitted)

PUNJAB	Rawalpindi	Unit Type	Location	Latitude	Longitude	Start	End	
PUNJAB	Rawalpindi	Farm	Roomilane	33,651	72,968	02/02/2007		
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	40	20	18	22	0		
Affected Population		backyard poultry (native hens)						

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Sector F-11	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Sector F-11	Farm	Sector F-11	33,72	73,06	13/02/2007	

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	Animals	20	5	1	19	0
Affected Population		backyard poultry (peacocks, parrots, partridges, ducks, cranes and native hens)				

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Not applicable	Islamabad Zoo	33,72	73,06	16/02/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	42	4	3	39	0	
Affected Population		geese and turkeys in a zoo					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Peshawar	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Peshawar	Village	Pir Sabak	34,03	71,49	07/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	150	90	60	90	0	
Affected Population		backyard poultry (Fayoumi breed)					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Peshawar	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Peshawar	Village	Shahi Bala	34,03	71,49	07/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	122	91	64	58	0	
Affected Population		backyard poultry (Fayoumi breed)					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Peshawar	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Peshawar	Village	Pakna Pull	34,03	71,49	07/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	20	10	6	14	0	
Affected Population		backyard poultry (Fayoumi breed)					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Peshawar	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Peshawar	Farm	Peshawar	34,03	71,49	08/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	5	2	2	3	0	

Affected Population	backyard farm/zoo (peacocks)
---------------------	------------------------------

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Not applicable	Nelore	33,75	73,02	11/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Wild species	Animals	4	4	4	0	0	
Affected Population	wild crow						

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Peshawar	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Peshawar	Farm	Taru Jaba	34,03	71,49	12/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	12	2	2	10	0	
Affected Population	backyard farm/zoo (pigeons and peacocks)						

Outbreak (other report - submitted)

PUNJAB	Rawalpindi	Unit Type	Location	Latitude	Longitude	Start	End
PUNJAB	Rawalpindi	Farm	Ayub Park	33,67	72,95	12/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	5	1	1	4	0	
Affected Population	backyard farm/zoo (ostriches)						

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Mansehra	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Mansehra	Farm	Bahali	34,39	73,11	23/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	1300	845	422	878	0	
Affected Population	Golden layer						

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Farm	Banda Battang	34,2	73,13	23/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	1500	900	360	1140	0	
Affected Population	broiler						

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Farm	Beerh	34,2	73,13	23/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	2000	1200	420	1580	0	
Affected Population		broiler					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Farm	Saler Maira	34,2	73,13	23/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	1500	870	217	1283	0	
Affected Population		broiler					

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Usman, shed No. 12	25,16	66,92	27/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	2500	1125	799	1701	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Usman, shed No. 15	25,16	66,92	27/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	2000	1000	750	1250	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Usman, shed No. 14	25,16	66,92	27/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	2500	1500	1035	1465	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Prince, shed No. 5	25,16	66,92	27/03/2007	

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	Animals	2500	1325	861	1639	0
Affected Population		layer poultry in a commercial farm				

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Rehmania, shed No. 3	25,16	66,92	27/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	5600	3696	2587	3013	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

SINDH	Karachi	Unit Type	Location	Latitude	Longitude	Start	End
SINDH	Karachi	Farm	Rehmania, shed No. 2	25,16	66,92	27/03/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	6000	2400	1440	4560	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Farm	Sattar, Berot, Sarran	34,22	73,15	02/04/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	5000	2950	2271	2729	0	
Affected Population		broiler poultry in a commercial farm					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Abbottabad	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Abbottabad	Farm	Waqas, Qalander Abad	34,22	73,15	02/04/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	1000	670	482	518	0	
Affected Population		broiler and breeder poultry in a commercial farm					

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Farm	Chak Shahzad	33,72	73,06	18/05/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	24	24	24	0	0	

Affected Population	backyard poultry (peacocks and native birds)
---------------------	--

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Farm	Ashiq P/F, Chak Shahzad	33,72	73,06	18/05/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	9200	1440	1440	7760	0	
Affected Population		broiler and breeder poultry in a commercial farm					

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Farm	Mehmood P/F, Chak Shahzad	33,72	73,06	18/05/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	1100	1073	1073	27	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

ISLAMABAD CAPITAL TERRITORY	Islamabad	Unit Type	Location	Latitude	Longitude	Start	End
ISLAMABAD CAPITAL TERRITORY	Islamabad	Farm	Sheikh Shahid P/F, Chak Shahzad	33,72	73,06	19/05/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	7000	3090	3090	3910	0	
Affected Population		layer poultry in a commercial farm					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Mansehra	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Mansehra	Farm	M/S AiliaChicks Kotli Paeem Mansehra	34,41	73,13	21/07/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	60000	37393	22607	37393	...	
Affected Population		Broiler and breeder poultry 16-weeks-old in a commercial farm.					

Outbreak (other report - submitted)

NORTH-WEST FRONTIER	Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER	Farm	M/S Ejaz Shah, Maira Sydian	34,21	73,12	19/10/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	Animals	2200	890	534	1666	0
Affected Population		29-week-old broiler breeder flock				

Outbreak (other report - submitted)

NORTH-WEST FRONTIER		Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER		Farm	M/S Ahtasham, Batal	34,38	73,12	23/10/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	45270	7243	5794	39476	0	
Affected Population		seven-week-old broiler breeder flock					

Outbreak (this report - submitted)

PUNJAB		Unit Type	Location	Latitude	Longitude	Start	End
PUNJAB		Farm	Manga	33,91	73,38	27/11/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	18000	8000	8000	10000	0	
Affected Population		a commercial 23-day-old broiler flock					

Outbreak (this report - submitted)

NORTH-WEST FRONTIER		Unit Type	Location	Latitude	Longitude	Start	End
NORTH-WEST FRONTIER		Farm	M/S Termain, Beffa Doraha village	34,18	73,14	28/11/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered	
Birds	Animals	13457	11657	11657	1800	0	
Affected Population		44-week-old commercial broiler breeder flock					

Outbreak summary: Total outbreaks = 32 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	190254	89616	66120	124134	0
Wild species	4	4	4	0	0

Epidemiology

Epidemiological comments	
Culling and disposal of birds were carried out under the supervision of a State veterinarian.	
All the infected premises of the affected farms were disinfected on 1 and 2 December 2007. The premises were closed for one month.	
Ring vaccination with an H5 inactivated monovalent vaccine in a 3-km-radius zone around the outbreak is ongoing.	
Source of Infection	• Contact with wild Species

Control Measures

Applied	• Stamping out	To be applied	• Zoning
	• Quarantine		• Vaccination in response to the outbreak (s)
	• Screening	Vaccination Prohibited	No
	• Disinfection of infected premises/establishment(s)		

Animals treated	No
-----------------	----

Country / Zone

Country or zone	the whole country
-----------------	-------------------

Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	virus neutralisation test (VNT)	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	virus isolation	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	reverse transcription – polymerase chain reaction (RT-PCR)	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	rapid tests	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	haemagglutination inhibition test (HIT)	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	haemagglutination (HA) test	30/11/2007	Positive
National laboratory	National Animal Sciences Institute, National Agricultural Research Centre, Islamabad	Birds	agar-gel immunodiffusion (AGID)	30/11/2007	Positive

Future Reporting

What further reports will be submitted in relation to this event?
There are 32 outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.

Outbreak map

