

### Follow-up report No.4

Report reference: , Reference OIE : 14887, Report Date : 04/03/2014, Country : Korea (Rep. of)

#### Report Summary

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		<b>Date submitted to OIE</b>	04/03/2014

<b>Animal type</b>	Terrestrial	<b>Date of report</b>	04/03/2014
<b>Disease</b>	Highly pathogenic avian influenza	<b>Date of start of the event</b>	16/01/2014
<b>Causal Agent</b>	Highly pathogenic avian influenza virus	<b>Date of pre-confirmation of the event</b>	16/01/2014
<b>Serotype(s)</b>	H5N8	<b>Date of last occurrence</b>	26/05/2011
<b>Reason</b>	Reoccurrence of a listed disease	<b>Diagnosis</b>	Laboratory (advanced)
<b>Country or zone</b>	a zone or compartment	<b>Clinical signs</b>	Yes
<b>Number of reported outbreaks</b>	submitted= 26, Draft= 0		

#### Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Gochang-gun	Sillim-myeon	Farm	488, Murim-ri	35.499265	126.7089845	16/01/2014	
<b>Species</b>	<b>Measuring units</b>	<b>Susceptible</b>	<b>Cases</b>	<b>Deaths</b>	<b>Destroyed</b>	<b>Slaughtered</b>			
Birds	Animals	21180	10	7	21173	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Buan-gun	Julpo-myeon	Farm	488, Sin-ri	35.5908307	126.7042137	17/01/2014	
<b>Species</b>	<b>Measuring units</b>	<b>Susceptible</b>	<b>Cases</b>	<b>Deaths</b>	<b>Destroyed</b>	<b>Slaughtered</b>			
Birds	Animals	6500	120	120	6380	0			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Buan-gun	Julpo-myeon	Farm	748, Sin-ri	35.5787901	126.7026635	18/01/2014	
<b>Species</b>	<b>Measuring units</b>	<b>Susceptible</b>	<b>Cases</b>	<b>Deaths</b>	<b>Destroyed</b>	<b>Slaughtered</b>			
Birds	Animals	9200	340	340	8860	0			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Buan-gun	Gyehwa-myeon	Farm	2485, Yangsan-ri	35.7904283	126.7203995	19/01/2014	
<b>Species</b>	<b>Measuring units</b>	<b>Susceptible</b>	<b>Cases</b>	<b>Deaths</b>	<b>Destroyed</b>	<b>Slaughtered</b>			
Birds	Animals	18100	400	400	17700	0			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Gochang-gun	Haeri-myeon	Farm	1241, Saban-ri	35.4780409	126.4991109	21/01/2014	
<b>Species</b>	<b>Measuring units</b>	<b>Susceptible</b>	<b>Cases</b>	<b>Deaths</b>	<b>Destroyed</b>	<b>Slaughtered</b>			
Birds	Animals	11200	20	20	11180	0			

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
CHUNGCHEONGNAM-DO-other report - submitted	-	Buyeo-gun	Hongsan-myeon	Farm	438-10, Bukchon-ri	36.2072414	126.7714696	23/01/2014	
Birds	Animals	22000	100	100	21900	0			
Affected Population	chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
JEOLLANAM-DO-other report - submitted	-	Haenam-gun	Songji-myeon	Farm	1621-1, Mabong-ri	34.3651362	126.5543675	23/01/2014	
Birds	Animals	12500	1700	1700	10800	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
JEOLLANAM-DO-other report - submitted	-	Naju-si	Seji-myeon	Farm	34, Obong-ri	34.9083266	126.7567077	25/01/2014	
Birds	Animals	10000	50	50	9950	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
CHUNGCHEONGNAM-DO-other report - submitted	-	Cheonan-si	Seobuk-gu	Farm	177-2, Panjeong-ri, Jiksan-eup	36.904647	127.1747334	26/01/2014	
Birds	Animals	9500	4	4	9496	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
CHUNGCHEONGBUK-DO-other report - submitted	-	Jincheon-gun	Iwol-myeon	Farm	614-11, Samyong-ri	36.9113731	127.4672809	26/01/2014	
Birds	Animals	5000	13	13	4987	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
GYEONGSANGNAM-DO-other report - submitted	-	Miryang-si	Chodong-myeon	Farm	126, Deoksan-ri	35.4413471	128.6845591	28/01/2014	
Birds	Animals	9000	70	70	8930	0			
Affected Population	chickens for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
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Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
GYEONGGI-DO-other report - submitted	-	Hwaseong-si	Seosin-myeon	Farm	19-4, Jeon-gok-ri	37.2025513	126.6960219	28/01/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	18000	90	90	17910	0			
Affected Population	breeding chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
JEOLLANAM-DO-other report - submitted	-	Yeongam-gun	Deokjin-myeon	Farm	83-1, Jangseon-ri	34.8400343	126.685103	28/01/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	10000	6000	0	10000	...			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
CHUNGCHEONGBUK-DO-other report - submitted	-	Jincheon-gun	Deoksan-myeon	Farm	636-1, Insan-ri	36.8699714	127.4863592	31/01/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	9000	103	103	8897	0			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
CHUNGCHEONGBUK-DO-other report - submitted	-	Eumseong-gun	Daeso-myeon	Farm	764-1, Samjeong-ri	36.947056	127.4813475	02/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	9100	1365	0	9100	...			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
GYEONGGI-DO-other report - submitted	-	Onseok-dong	Hwaseong-si	Farm	488-3	37.164079	126.8541608	06/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	27000	30	30	26970	0			
Affected Population	breeding chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
JEOLLANAM-DO-other report - submitted	-	Yeongam-gun	Dopo-myeon	Farm	1-3, Deokhwa-ri	34.8494764	126.6341292	06/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	27000	10320	10320	16680	...			
Affected Population	layer chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
JEOLLANAM-DO-other report - submitted	-	Yeongam-gun	Yeongam-eup	Farm	461-35, Songpyeong-ri	34.7991821	126.6691184	11/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	12100	2550	0	12100	0			
Affected Population	ducks for meat : 7000 breeding ducks : 5100								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Jeongeup-si	Samsan-dong	Farm	524	35.5473346	126.8216658	13/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	16000	300	300	15700	0			
Affected Population	breeding chicken								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CHUNGCHEONGNAM-DO-other report - submitted	-	Cheongyang-gun	Ungok-myeon	Farm	194, Wira-ri	36.4947034	126.8442195	14/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	35000	200	200	34800	0			
Affected Population	layer chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLABUK-DO-other report - submitted	-	Gimje-si	Yongji-myeon	Farm	359-4, Ban-gyo-ri	35.8326662	126.9588405	16/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	7380	2	0	7380	0			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CHUNGCHEONGBUK-DO-other report - submitted	-	Eumseong-gun	Maengdong-myeon	Farm	679, Bonghyeon-ri	36.9342791	127.5269072	17/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	6100	88	88	6012	0			
Affected Population	ducks for meat								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CHUNGCHEONGNAM-DO-other report - submitted	-	Nonsan-si	Yeonmu-eup	Farm	911-17, Majeon-ri	36.080418	127.0809038	20/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	40000	150	150	39850	0			
Affected Population	breeding chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CHUNGCHEONGNAM-DO-other report - submitted	-	Cheonan-si,	Dongnam-gu	Farm	146 Dowon-ri, Byeongcheon-myeon	36.7785294	127.3198604	23/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	120000	986	986	119014	...			
Affected Population	layer chickens								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
GYEONGGI-DO-other report - submitted	-	Pyeongtaek-si	Paengseong-eup	Farm	40-1, Daesa-ri	36.9409959	127.0741749	23/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	18600	9300	0	18600	...			
Affected Population	breeding ducks								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
JEOLLANAM-DO-other report - submitted	-	Yeonggwang-gun	Myoryang-myeon	Farm	951, Yeongyang-ri	35.2470975	126.537636	26/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	20000	23	23	19977	...			
Affected Population	breeding ducks								

### Outbreak summary: Total outbreaks = 26 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	509460	34334	15114	494346	0

### Epidemiology

#### Epidemiological comments

- The H5N8 subtype of viruses have a series of basic amino acid at the hemagglutinin (HA) cleavage site such as LREKRRKR/GLF or LRERRRKR/GLF, which means highly pathogenic to chickens.
- The intravenous pathogenic index was 3.0, which means highly pathogenic to chickens.
- Animal and Plant Quarantine Agency (QIA) injected intravenously 0.1ml of the 1/10 diluted virus into each of ten 6-week-old SPF chickens. All birds were died within 24 hours.
- QIA submitted the genetic information to GenBank and submitted manuscript to scientific society (Emerging Infectious Disease, MS#EID-14-0233) about the brief situation of outbreaks and the genetic information on 27 January 2014.

#### Source of the outbreak(s) or origin of infection

- Unknown or inconclusive

### Measures applied

Applied	To be applied
<ul style="list-style-type: none"> <li>• control of wildlife reservoirs</li> <li>• stamping out</li> <li>• quarantine</li> <li>• movement control inside the country</li> <li>• zoning</li> <li>• disinfection of infected premises/establishment(s)</li> </ul>	<ul style="list-style-type: none"> <li>• no planned control measures</li> </ul>
Animals treated	Vaccination Prohibited
No	Yes

### Future Reporting

The event is continuing. Weekly follow-up reports will be submitted.

## Outbreak maps

