



Highly pathogenic avian influenza,  
Nepal

Summary

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Report type	Follow-up report No. 8
Date of start of the event	27/08/2012
Date of pre-confirmation of the event	03/09/2012
Report date	26/05/2013
Date submitted to OIE	26/05/2013
Reason for notification	Reoccurrence of a listed disease
Date of previous occurrence	30/03/2012
Manifestation of disease	Clinical disease
Causal agent	Highly pathogenic avian influenza virus
Serotype	H5N1
Nature of diagnosis	Clinical, Laboratory (basic), Laboratory (advanced), Necropsy
This event pertains to	the whole country

Related reports

[Immediate notification \(14/10/2012\)](#)

[Follow-up report No. 1 \(02/11/2012\)](#)

[Follow-up report No. 2 \(24/12/2012\)](#)

[Follow-up report No. 3 \(06/01/2013\)](#)

[Follow-up report No. 4 \(18/01/2013\)](#)

[Follow-up report No. 5 \(21/01/2013\)](#)

[Follow-up report No. 6 \(15/02/2013\)](#)

[Follow-up report No. 7 \(11/04/2013\)](#)

[Follow-up report No. 8 \(26/05/2013\)](#)

New outbreaks (32)

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Outbreak 1	Gadariya, Gadariya VDC 9, Kailali, SETI												
Date of start of the outbreak	11/04/2013												
Outbreak status	Resolved (18/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>1500</td> <td>259</td> <td>259</td> <td>1241</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	1500	259	259	1241	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	1500	259	259	1241	0								
Affected population	Commercial broiler chicken raised in a closed farm premises												

Outbreak 2	Prithivinagar 5, Prithivinagar, Jhapa, MECHI												
Date of start of the outbreak	12/04/2013												
Outbreak status	Resolved (16/04/2013)												
Epidemiological unit	Village												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>60</td> <td>14</td> <td>14</td> <td>46</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	60	14	14	46	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	60	14	14	46	0								
Affected population	Backyard birds raised in free range system												

Outbreak 3	Mechinagar 11, Mechinagar, Jhapa, MECHI												
Date of start of the outbreak	14/04/2013												
Outbreak status	Resolved (18/04/2013)												
Epidemiological unit	Village												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>102</td> <td>20</td> <td>20</td> <td>82</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	102	20	20	82	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	102	20	20	82	0								
Affected population	Backyard chicken and duck reared in free range system												

Outbreak 4	Bhadrapur 8, Bhadrapur, Jhapa, MECHI
Date of start of the outbreak	14/04/2013
Outbreak status	Resolved (19/04/2013)
Epidemiological unit	Farm

Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>500</td> <td>107</td> <td>107</td> <td>393</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	500	107	107	393	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	500	107	107	393	0								
Affected population	A commercial broiler flock raised in closed housing system												
Outbreak 5	Chandragadi 4, Chandragadi, Jhapa, MECHI												
Date of start of the outbreak	14/04/2013												
Outbreak status	Resolved (18/05/2013)												
Epidemiological unit	Village												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>52</td> <td>11</td> <td>11</td> <td>41</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	52	11	11	41	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	52	11	11	41	0								
Affected population	Backyard chicken raised in free range system												
Outbreak 6	Bharatpur 9, Bharatpur, Chitwan, NARAYANI												
Date of start of the outbreak	17/04/2013												
Outbreak status	Resolved (20/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>60000</td> <td>33675</td> <td>33675</td> <td>26325</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	60000	33675	33675	26325	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	60000	33675	33675	26325	0								
Affected population	A large commercial layer farm raised in deep litter system												

Outbreak 7	Mangalpur 7, Mangalpur, Chitwan, NARAYANI												
Date of start of the outbreak	18/04/2013												
Outbreak status	Resolved (20/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>4000</td> <td>775</td> <td>775</td> <td>3225</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	4000	775	775	3225	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	4000	775	775	3225	0								
Affected population	A commercial layer farm raised in deep litter system												

Outbreak 8	Mechinagar 10, Kakarvitta, Jhapa, MECHI												
Date of start of the outbreak	18/04/2013												
Outbreak status	Resolved (21/04/2013)												
Epidemiological unit	Not applicable												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>House Crow:Corvus splendens(Corvidae)</td> <td></td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	House Crow:Corvus splendens(Corvidae)		1	1	0	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
House Crow:Corvus splendens(Corvidae)		1	1	0	0								
Affected population	A wild crow found dead in the premises of custom office at Nepal-India border												

Outbreak 9	Mangalpur 5, Mangalpur, Chitwan, NARAYANI
Date of start of the outbreak	19/04/2013
Outbreak status	Resolved (22/04/2013)
Epidemiological unit	Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	3500	275	275	3225	0

Affected population	A commercial layer farm in deep litter system
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Outbreak 10	Chandragadi 1, Chandragadi, Jhapa, MECHI
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Date of start of the outbreak	19/04/2013
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Outbreak status	Resolved (23/04/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	200	49	49	151	0

Affected population	A commercial broiler birds in deep litter system
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Outbreak 11	Prithivinagar 5, Prithivinagar, Jhapa, MECHI
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Date of start of the outbreak	19/04/2013
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Outbreak status	Resolved (23/04/2013)
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Epidemiological unit	Village
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	2000	562	562	1438	0

Affected population	Backyard chicken and ducks in whole village
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Outbreak 12	Pokharvindi 7, Pokharvindi, Rupandehi, LUMBINI												
Date of start of the outbreak	19/04/2013												
Outbreak status	Resolved (23/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>500</td> <td>163</td> <td>163</td> <td>337</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	500	163	163	337	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	500	163	163	337	0								
Affected population	A commercial broiler flock in deep litter system												

Outbreak 13	Bharatpur 9, Bharatpur, Chitwan, NARAYANI												
Date of start of the outbreak	19/04/2013												
Outbreak status	Resolved (22/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>3300</td> <td>426</td> <td>426</td> <td>2874</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	3300	426	426	2874	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	3300	426	426	2874	0								
Affected population	A commercial layer farm in deep litter system												

Outbreak 14	Pokharvindi 2, Pokharvindi, Rupandehi, LUMBINI
Date of start of the outbreak	21/04/2013
Outbreak status	Resolved (26/04/2013)
Epidemiological unit	Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	250	50	50	200	0

Affected population	A commercial broiler farm in deep litter system
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Outbreak 15	Baharatpur 1, Ramnagar, Chitwan, NARAYANI
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Date of start of the outbreak	23/04/2013
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Outbreak status	Resolved (29/04/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	3000	640	640	2360	0

Affected population	A commercial broiler parent farm in deep litter system
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Outbreak 16	Chapagaun 2, Chapagaun, Lalitpur, BAGMATI
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Date of start of the outbreak	23/04/2013
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Outbreak status	Resolved (27/04/2013)
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Epidemiological unit	Village
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	20	7	7	13	0

Affected population	Backyard chicken and ducks raised in a household
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Outbreak 17	Dhapakhel 1, Dhapakhel, Lalitpur, BAGMATI												
Date of start of the outbreak	23/04/2013												
Outbreak status	Resolved (27/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>600</td> <td>110</td> <td>110</td> <td>490</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	600	110	110	490	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	600	110	110	490	0								
Affected population	A commercial broiler farm in deep litter system												

Outbreak 18	Mangalpur 8, Mangalpur, Chitwan, NARAYANI												
Date of start of the outbreak	25/04/2013												
Outbreak status	Resolved (30/04/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>1500</td> <td>382</td> <td>382</td> <td>1118</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	1500	382	382	1118	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	1500	382	382	1118	0								
Affected population	A commercial layer farm in deep litter system												

Outbreak 19	Mangalpur 5, Mangalpur, Chitwan, NARAYANI
Date of start of the outbreak	29/04/2013
Outbreak status	Resolved (02/05/2013)
Epidemiological unit	Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	2000	525	525	1475	0

Affected population: A commercial layer farm in deep litter system

Outbreak 20: Mangalpur 5, Mangalpur, Chitwan, NARAYANI

Date of start of the outbreak: 30/04/2013

Outbreak status: Resolved (04/05/2013)

Epidemiological unit: Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	9200	450	450	8750	0

Affected population: Commercial layers in deep litter system

Outbreak 21: Mangalpur 5, Mangalpur, Chitwan, NARAYANI

Date of start of the outbreak: 30/04/2013

Outbreak status: Resolved (03/05/2013)

Epidemiological unit: Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	9000	983	983	8017	0

Affected population: A commercial layer farm in deep litter system

Outbreak 22	Mulpani, Mulpani 3, Kathmandu, BAGMATI												
Date of start of the outbreak	06/05/2013												
Outbreak status	Resolved (13/05/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>2000</td> <td>535</td> <td>535</td> <td>1465</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	2000	535	535	1465	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	2000	535	535	1465	0								
Affected population	A commercial layer farm raised in deep litter system with birds of several ages												

Outbreak 23	Marchabar 8, Marchabar, Rupandehi, LUMBINI												
Date of start of the outbreak	07/05/2013												
Outbreak status	Resolved (14/05/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>200</td> <td>194</td> <td>194</td> <td>6</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	200	194	194	6	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	200	194	194	6	0								
Affected population	A commercial broiler farm in deep litter system												

Outbreak 24	Mangalpur 3, Mangalpur, Chitwan, NARAYANI
Date of start of the outbreak	08/05/2013
Outbreak status	Resolved (12/05/2013)
Epidemiological unit	Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	1000	224	224	776	0

Affected population	A commercial layer farm in deep litter system
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Outbreak 25	Lekhnath 13, Tallo Gagangauda, Kaski, GANDAKI
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Date of start of the outbreak	08/05/2013
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Outbreak status	Resolved (14/05/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	750	195	195	555	0

Affected population	Giriraj birds raised for meat purpose in deep litter system
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Outbreak 26	Manikhel 1, Manikhel, Lalitpur, BAGMATI
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Date of start of the outbreak	09/05/2013
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Outbreak status	Resolved (14/05/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	3150	262	262	2888	0

Affected population	A commercial broiler of 42 days of age raised in deep litter system
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Outbreak 27	Mangalpur 9, Mangalpur, Chitwan, NARAYANI												
Date of start of the outbreak	11/05/2013												
Outbreak status	Resolved (14/05/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>5000</td> <td>422</td> <td>422</td> <td>4578</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	5000	422	422	4578	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	5000	422	422	4578	0								
Affected population	A commercial layer parent stock in deep litter system												

Outbreak 28	Kirtipur N P 1, Tangla, Kathmandu, BAGMATI												
Date of start of the outbreak	12/05/2013												
Outbreak status	Resolved (15/05/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>250</td> <td>55</td> <td>55</td> <td>195</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	250	55	55	195	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	250	55	55	195	0								
Affected population	A commercial broiler farm in deep litter system raised in household												

Outbreak 29	Mangalpur 3, Mangalpur, Chitwan, NARAYANI
Date of start of the outbreak	13/05/2013
Outbreak status	Resolved (16/05/2013)
Epidemiological unit	Farm

Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	2000	280	280	1720	0

Affected population	A commercial layer farm in deep litter system
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Outbreak 30	Dhapasi 6, Dhapasi, Kathmandu, BAGMATI
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Date of start of the outbreak	17/05/2013
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Outbreak status	Resolved (21/05/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	900	90	90	810	0

Affected population	A commercial mixed farm having chicken and duck in deep litter system
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Outbreak 31	Mangalpur 3, Mangalpur, Chitwan, NARAYANI
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Date of start of the outbreak	19/05/2013
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Outbreak status	Resolved (21/05/2013)
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Epidemiological unit	Farm
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Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	1800	378	378	1422	0

Affected population	A commercial layer flock in deep litter system
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Outbreak 32	Mangalpur 3, Mangalpur, Chitwan, NARAYANI												
Date of start of the outbreak	20/05/2013												
Outbreak status	Resolved (22/05/2013)												
Epidemiological unit	Farm												
Affected animals	<table border="1"> <thead> <tr> <th>Species</th> <th>Susceptible</th> <th>Cases</th> <th>Deaths</th> <th>Destroyed</th> <th>Slaughtered</th> </tr> </thead> <tbody> <tr> <td>Birds</td> <td>4000</td> <td>535</td> <td>535</td> <td>3465</td> <td>0</td> </tr> </tbody> </table>	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered	Birds	4000	535	535	3465	0
Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered								
Birds	4000	535	535	3465	0								
Affected population	A commercial layer flock in deep litter system												

Summary of outbreaks	Total outbreaks: 32
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Total animals affected	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	122334	42653	42653	79681	0
	House Crow:Corvus splendens(Corvidae)		1	1	0	0

Outbreak statistics	Species	Apparent morbidity rate	Apparent mortality rate	Apparent case fatality rate	Proportion susceptible animals lost*
	Birds	34.87%	34.87%	100.00%	100.00%
	House Crow:Corvus splendens (Corvidae)	**	**	100.00%	**

\*Removed from the susceptible population through death, destruction and/or slaughter

\*\*Not calculated because of missing information

## Epidemiology

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Source of the outbreak(s) or origin of infection	<ul style="list-style-type: none"><li>• Unknown or inconclusive</li></ul>
Epidemiological comments	Birds showed respiratory distress, nervous signs and all affected birds died. Cleaning and disinfection activities in the infected premises are completed. Intensive surveillance activities are ongoing throughout the country.

## Control measures

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Measures 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>• Screening</li><li>• Disinfection of infected premises/establishment(s)</li><li>• Dipping / Spraying</li><li>• Vaccination prohibited</li><li>• No treatment of affected animals</li></ul>
Measures to be applied	<ul style="list-style-type: none"><li>• No other measures</li></ul>

## Future Reporting

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The event is continuing. Weekly follow-up reports will be submitted.
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## Map of outbreak locations

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