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OIE Reference: 1105	Report period: Jan-Dec 2009	Country: Vietnam
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Report Summary

Animal type	Terrestrial and Aquatic	Date of report	12/05/2010
Submitted	Yes	Report Period:	Jan-Dec 2009
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1. Summary on OIE-listed diseases/infections present in Vietnam

OIE-Listed disease	occurrence	Serotype(s)	New outbreaks	Total outbreaks	Species	Control Measures	Official vaccination	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinat in respons to the outbreak
Foot and mouth disease (Domestic)	+	O, A	218	218	***	* Qf M Qi Sp T		Animals	...	...	...	...	...	...
					bov	Te TSu Z V	8000000	Animals	14393	4730	29	125	13	31210
					buf	Te TSu Z V	3000000	Animals	20192	4521	27	218	107	40422
					sui	TSu Z		Animals	1864	665	83	365	16	0
					cap	GSu		Animals	...	...	...	...	...	...
					cml	GSu		Animals	...	...	...	...	...	...
					o/c	GSu		Animals	...	...	...	...	...	...
					ovi	GSu		Animals	...	...	...	...	...	...
Anthrax (Domestic)	+()		***	*	...	Animals	...	...	...	...	...	...
					bov	Qf M GSu Qi S		Animals	...	...	...	...	...	...
					buf	Qf M GSu Qi S		Animals	...	...	...	...	...	...
					equ	Qf M GSu S		Animals	...	...	...	...	...	...
Aujeszky's disease (Domestic)	?		sui	* Qf GSu Qi Z		Animals						
Heartwater (Domestic)	?		bov	Qf GSu		Animals						
					buf	Qf GSu		Animals						
Leptospirosis (Domestic)	+	No	180	208	bov	Qf		Animals	517000	855154	578	0	0	0
					buf	Qf		Animals	654000	101950	2865	0	0	0
					sui			Animals	23010	2092	761	426	0	0
Rabies (Domestic)	+()	No	2	2	can	* Qf M TSu Qi S V	3000000	Animals	3000	96	96	10	0	5000
					fel	* Qf M TSu Qi S V	850000	Animals	...	...	...	...	...	...
Paratuberculosis (Domestic)	?				Animals	...	...	...	...	...	...
Trichinellosis (Domestic and Wild)	+	No	0	1	***	Te S	...	Animals	...	...	...	...	...	...
					sui			Animals	...	...	...	...	...	...
Brucellosis (Brucella abortus) (Domestic)	?				Animals	...	...	...	...	...	...
Bovine anaplasmosis (Domestic)	?				Animals	...	...	...	...	...	...
Bovine babesiosis (Domestic)	?				Animals	...	...	...	...	...	...
Bov. genital campylobacteriosis (Domestic)	?				Animals	...	...	...	...	...	...
Bovine tuberculosis (Domestic)	?				Animals	...	...	...	...	...	...

Enzootic bovine leukosis (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
Haemorrhagic septicaemia (Domestic)	+	No	536	545	bov			Animals	6500	1271	395	0	0	13000
					buf			Animals	297578	11606	1362	0	0	492000
					sui			Animals	651100	34749	4700	0	0	107500
Inf.bov.rhinotracheit. (IBR/IPV) (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
Theileriosis (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
Trichomonosis (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
Trypanosomosis (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Sheep pox and goat pox (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Salmonellosis (S. abortusovis) (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
Classical swine fever (Domestic)	+	No	171	177	sui			Animals	628150	29299	4691	1336	1153	111210
Porcine cysticercosis (Domestic)	+( )	...	...	...				Animals	...	...	...	...	...	...
Porcine reproductive/respiratory syndr. (Domestic)	+	No	43	43	sui			Animals	96215	7528	1827	2636	1832	0
Highly path. avian influenza (Domestic and Wild)	+	H5N1	46	48	***	Te Qi Sp Z	...	Animals	...	...	...	...	...	...
					avi			Animals	37422	9585	6989	22248	0	...
Newcastle disease (Domestic)	+	No	928	939	avi			Animals	4867385	114815	59261	23559	2849	802000
Avian infectious bronchitis (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Duck virus hepatitis (Domestic)	+	No	111	124	avi			Animals	349056	34452	17541	11797	4668	940000
Fowl cholera (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Fowl typhoid (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Infec bursal disease (Gumboro) (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Pullorum disease (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...
Epizootic ulcerative syndrome (Domestic)	?	...	...	...				Animals	...	...	...	...	...	...
White spot disease (Domestic)	+	...	...	...				Animals	...	...	...	...	...	...

2. OIE-listed diseases absent in Vietnam during the reporting period or never reported

Multiple species

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Bluetongue (Domestic and Wild)	0000	bov	Qf GSu	
		buf	Qf GSu	
		cap	Qf GSu	
		cml	Qf GSu	
		o/c	Qf GSu	
		ovi	Qf GSu	
Crimean Congo haemorrhagic fever (Domestic and Wild)	0000			
Equine encephalomyelitis (Eastern) (Domestic and Wild)	0000			
New world screwworm (Cochliomyia hominivorax) (Domestic and Wild)	0000	bov	Qf GSu	
		can	Qf GSu	
		fel	Qf GSu	
Old world screwworm (Chrysomya bezziana) (Domestic and Wild)	0000	can	Qf GSu	
		fel	Qf GSu	
Rift Valley fever (Domestic and Wild)	0000	bov	Qf GSu	

		buf	Qf GSu	
		cap	Qf GSu	
		o/c	Qf GSu	
		ovi	Qf GSu	
Rinderpest (Domestic and Wild)	1977	***	* Qf GSu Vp	
Vesicular stomatitis (Domestic and Wild)	0000	bov	Qf GSu	
		sui	Qf GSu	
West Nile Fever (Domestic and Wild)	0000			

Cattle

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Bovine spongiform encephalopathy (Domestic and Wild)	0000	bov	Qf GSu	
Contagious bovine pleuropneumonia (Domestic and Wild)	0000	bov	Qf GSu	
		buf	Qf GSu	
		cap	Qf GSu	
		o/c	Qf GSu	
		ovi	Qf GSu	
Lumpy skin disease (Domestic and Wild)	-			

Sheep/Goats

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Caprine arthritis/encephalitis (Domestic and Wild)	0000	cap	Qf GSu	
Contagious agalactia (Domestic and Wild)	0000	o/c	Qf GSu	
Contagious caprine pleuropneumonia (Domestic and Wild)	0000	cap	Qf GSu Vp	
Enzootic abortion of ewes (ovine chlamydiosis) (Domestic and Wild)	0000	o/c	Qf GSu	
Maedi-visna (Domestic and Wild)	0000	ovi	Qf	
Nairobi sheep disease (Domestic and Wild)	0000	o/c	Qf GSu	
Ovine epididymitis (Brucella ovis) (Domestic and Wild)	0000	ovi	Qf GSu	
Peste des petits ruminants (Domestic and Wild)	0000	o/c	Qf GSu Vp	
Scrapie (Domestic and Wild)	0000	o/c	Qf GSu	

Swine

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
African swine fever (Domestic and Wild)	0000	sui	Qf GSu	
Swine vesicular disease (Domestic and Wild)	0000	sui	Qf GSu	
Transmissible gastroenteritis (Domestic and Wild)	0000	sui	Qf	

Equidae

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
African horse sickness (Domestic and Wild)	0000	equ	* Qf GSu Vp	
Contagious equine metritis (Domestic)	-	equ	Qf	
Dourine (Domestic)	-	equ	Qf	
Equine encephalomyelitis (Western) (Domestic and Wild)	0000			
Equine infectious anaemia (Domestic)	-	equ	Qf	
Equine influenza (Domestic)	-	equ	* Qf GSu	
Equine piroplasmiasis (Domestic)	-	equ	Qf	
Equine rhinopneumonitis (Domestic)	-	equ	Qf	
Equine viral arteritis (Domestic and Wild)	0000	equ	Qf	
Glanders (Domestic)	-	equ	Qf	
Venezuelan equine encephalomyelitis (Domestic and Wild)	0000	equ	* Qf GSu	

Lagomorphs

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Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Myxomatosis (Domestic and Wild)	0000			
Rabbit haemorrhagic disease (Domestic)	-	lep	Qf GSu	

Birds

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Low pathogenic avian influenza (poultry) (Domestic)	0000			

Other

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Camelpox (Domestic)	0000			

Fish

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Epizootic haematopoietic necrosis (Domestic and Wild)	0000			
Infectious haematopoietic necrosis (Domestic and Wild)	0000			
Infectious salmon anaemia (Wild)	0000			
Infectious salmon anaemia (Domestic and Wild)	0000			
Koi herpesvirus disease (Domestic and Wild)	0000			
Red sea bream iridoviral disease (Domestic and Wild)	0000			
Spring viraemia of carp (Domestic and Wild)	0000			
Viral haemorrhagic septicaemia (Domestic and Wild)	0000			

Molluscs

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Abalone viral mortality (Domestic and Wild)	0000			
Infection with Bonamia exitiosa (Domestic and Wild)	0000			
Infection with Bonamia ostreae (Wild)	0000			
Infection with Bonamia ostreae (Domestic and Wild)	0000			
Infection with Marteilia refringens (Domestic and Wild)	0000			
Infection with Perkinsus marinus (Domestic and Wild)	0000			
Infection with Perkinsus olseni (Domestic and Wild)	0000			
Infection with Xenohaliotis californiensis (Domestic and Wild)	0000			

Crustaceans

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Crayfish plague (Aphanomyces astaci) (Domestic and Wild)	0000			
Infectious hypodermal and haematopoietic necrosis (Domestic and Wild)	0000			
Infectious myonecrosis (Domestic and Wild)	0000			
Spherical baculovirus (Penaeus monodon-type baculovirus) (Domestic and Wild)	-			
Taura syndrome (Domestic and Wild)	0000			
Tetrahedral baculovirus (Baculovirus penaei) (Domestic and Wild)	0000			

Amphibians

Disease	Date of last occurrence	Species	Control Measures	Official vaccination
Infection with Batrachochytrium dendrobatidis (Domestic and Wild)	0000			
Infection with ranavirus (Domestic and Wild)	0000			

3. Detailed quantitative information for OIE-listed diseases/infections present in Vietnam

Disease information by State by month from Jan-Dec 2009

Foot and mouth disease (Domestic)

Domestic Species

Month	Province	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	Kon Tum	O	1	1	bov			Animals	1450	478	0	6	13	1000
	Long An	O	1	1	bov			Animals	870	67	1	66	0	2100
	Son La	O	1	1	buf			Animals	240	15	0	0	2	1000
	Thua Thien - Hue	O	1	1	bov			Animals	50	7	0	7	0	500
Feb	Bac Can	O	1	1	buf			Animals	567	21	1	4	12	1200
	Kon Tum	O	1	1	buf			Animals	980	67	1	0	16	2000
	Nghe An	O	1	1	buf			Animals	710	21	4	19	12	2000
	Phu Tho	O	1	1	buf			Animals	210	15	0	5	1	500
	Quang Binh	O	1	1	buf			Animals	3500	259	7	12	19	3200
	Quang Nam	O	1	1	buf			Animals	150	12	0	0	2	500
	Quang Ngai	O	1	1	buf			Animals	210	19	0	0	12	300
	Quang Ninh	O	1	1	buf			Animals	210	6	0	6	0	500
	Son La	O	1	1	buf			Animals	490	56	0	7	12	800
Mar	Bac Can	O	1	1	buf			Animals	319	108	0	5	0	1000
	Bac Giang	O	1	1	buf			Animals	67	17	0	0	0	300
	Kon Tum	O	2	3	buf			Animals	500	145	2	0	2	500
	Nghe An	O	1	1	buf			Animals	100	20	0	0	0	200
	Quang Tri	O	1	1	buf			Animals	120	39	0	0	0	300
	Son La	O	8	9	buf			Animals	1400	364	0	7	0	1000
Apr	Kon Tum	O	1	2	buf			Animals	210	20	0	0	0	0
	Son La	O	1	1	buf			Animals	825	225	1	21	17	1000
May		No	0	0										
Jun		No	0	0										
Jul	Kon Tum	O	1	1	bov			Animals	125	74	0	0	0	2000
	Yen Bai	O	2	2	buf			Animals	31	8	0	0	0	1200
Aug	Dak Lak	A, O	3	3	bov			Animals	500	154	2	5	0	2000
	Dak Nong	O	6	6	buf			Animals	15	3	0	0	0	300
					bov			Animals	300	61	4	12	0	1000
	Ha Tinh	O	10	10	sui			Animals	33	20	2	31	0	0
					buf			Animals	80	20	0	0	0	300
					bov			Animals	250	52	1	0	0	500
	Phu Tho	O	1	1	bov			Animals	10	6	0	0	0	100
					buf			Animals	12	7	0	0	0	200
					sui			Animals	20	2	0	2	0	0
	Quang Binh	O	2	2	bov			Animals	500	157	0	0	0	1000
	Quang Ngai	O	8	8	buf			Animals	50	10	0	0	0	200
					bov			Animals	1500	230	0	0	0	2000
	Quang Tri	O	8	8	sui			Animals	30	16	2	14	0	0
					buf			Animals	220	64	0	0	0	400

					bov			Animals	600	230	0	0	0	1000
	Tuyen Quang	O	3	3	bov			Animals	59	14	1	13	0	200
					buf			Animals	70	43	2	41	0	300
					sui			Animals	210	89	11	78	0	0
Sep	Dak Lak	A, O	4	4	buf			Animals	40	22	0	0	0	200
					bov			Animals	350	179	4	0	0	750
	Dak Nong	O	2	2	bov			Animals	9	3	0	2	0	100
	Gia Lai	A	1	1	buf			Animals	12	5	0	0	0	150
					bov			Animals	110	40	1	0	0	300
	Ha Giang	A, O	14	14	sui			Animals	21	8	2	0	16	0
					buf			Animals	42	15	0	0	0	250
					bov			Animals	631	276	2	0	0	1000
	Lai Chau	O	1	1	buf			Animals	31	16	0	0	0	120
	Nghe An	O	14	14	sui			Animals	169	106	26	80	0	0
					buf			Animals	780	248	0	0	0	2000
					bov			Animals	790	267	0	0	0	1500
	Phu Tho	O	2	2	sui			Animals	12	2	2	0	0	0
					bov			Animals	17	9	0	0	0	50
					buf			Animals	27	11	1	1	0	120
	Quang Binh	O	3	3	buf			Animals	121	69	0	0	0	250
					bov			Animals	230	102	0	0	0	500
	Quang Nam	O	2	2	buf			Animals	32	13	0	0	0	200
					bov			Animals	89	40	0	0	0	150
	Quang Ninh	O	10	10	sui			Animals	30	11	2	5	0	0
					buf			Animals	310	172	0	0	0	540
	Quang Tri	O	2	2	bov			Animals	29	12	0	12	0	210
					buf			Animals	36	11	0	0	0	110
	Son La	O	3	3	sui			Animals	41	17	0	0	0	0
					buf			Animals	89	58	0	0	0	210
					bov			Animals	278	172	0	0	0	500
	Tuyen Quang	O	4	7	sui			Animals	71	46	12	34	0	0
					buf			Animals	131	74	3	71	0	1500
	Yen Bai	O	10	10	sui			Animals	26	17	1	16	0	0
					bov			Animals	41	26	0	0	0	110
					buf			Animals	384	188	0	8	0	1000
Oct	Dak Lak	A, O	3	7	buf			Animals	10	2	0	0	0	300
					bov			Animals	670	250	0	0	0	1500
	Gia Lai	A	1	2	bov			Animals	219	78	0	0	0	500
	Ha Giang	A, O	5	5	bov			Animals	24	10	1	2	0	300
					buf			Animals	45	16	0	0	0	1500
	Ha Tinh	O	4	4	sui			Animals	87	34	12	21	0	0
					bov			Animals	121	76	0	0	0	1200
					buf			Animals	157	65	0	0	0	500
	Hoa Binh	O	2	2	bov			Animals	21	12	0	0	0	250
					buf			Animals	76	28	0	0	0	500
	Lai Chau	O	1	1	sui			Animals	25	1	0	1	0	0
					buf			Animals	79	50	0	0	0	350
	Nghe An	O	1	1	bov			Animals	7	4	0	0	0	120
					sui			Animals	56	15	0	15	0	0
	Quang Nam	O	4	5	sui			Animals	21	7	0	7	0	0
					buf			Animals	54	29	0	0	0	300
					bov			Animals	542	168	0	0	0	1200
	Son La	O	2	2	bov			Animals	12	4	0	0	0	210
					buf			Animals	357	114	0	0	0	980

	Tuyen Quang	O	2	2	buf			Animals	31	17	0	0	0	200
Nov	Ha Giang	A, O	6	6	buf			Animals	45	31	0	0	0	320
					bov			Animals	110	86	0	0	0	500
	Ha Tinh	O	2	4	buf			Animals	65	31	0	0	0	250
					bov			Animals	134	86	0	0	0	530
	Lang Son	O	3	3	sui			Animals	5	2	0	2	0	0
					buf			Animals	21	8	0	0	0	52
					bov			Animals	98	46	3	0	0	350
	Lao Cai	O	2	2	buf			Animals	51	35	0	0	0	150
	Nam Dinh	A, O	1	1	bov			Animals	38	15	0	0	0	310
	Nghe An	O	1	1	buf			Animals	31	10	0	0	0	400
	Phu Tho	O	1	1	sui			Animals	21	9	4	17	0	0
					bov			Animals	41	18	0	0	0	270
					buf			Animals	78	29	0	0	0	420
	Phu Yen	O	2	2	bov			Animals	2970	988	8	0	0	3200
	Quang Nam	O	1	1	bov			Animals	54	29	0	0	0	300
					buf			Animals	76	24	0	0	0	150
	Son La	O	4	4	bov			Animals	37	12	0	0	0	0
					sui			Animals	310	117	0	0	0	0
					buf			Animals	324	113	0	0	0	500
	Yen Bai	O	1	1	buf			Animals	9	4	0	0	0	250
Dec	Cao Bang	A, O	3	3	bov			Animals	45	28	0	0	0	500
					buf			Animals	510	198	0	0	0	1000
	Kien Giang	O	1	1	bov			Animals	195	48	0	0	0	500
	Lai Chau	O	5	5	sui			Animals	129	30	7	6	0	0
					buf			Animals	3590	881	5	11	0	4000
	Lang Son	O	5	5	bov			Animals	129	67	1	0	0	350
					buf			Animals	548	154	0	0	0	1000
	Lao Cai	O	4	4	buf			Animals	57	23	0	0	0	250
	Phu Yen	O	1	1	bov			Animals	126	43	0	0	0	350
	Son La	O	5	5	bov			Animals	12	6	0	0	0	200
					sui			Animals	547	116	0	36	0	0
					buf			Animals	657	173	0	0	0	1200

Highly path. avian influenza (Domestic)

Month	Province	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	Ca Mau	H5N1	1	1	avi			Animals	580	192	192	388	0	...
	Quang Ninh	H5N1	1	1	avi			Animals	230	155	132	98	0	...
	Thai Nguyen	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Thanh Hoa	H5N1	0	1	avi			Animals	...	...	...	...	...	...
Feb	Bac Lieu	H5N1	2	2	avi			Animals	640	63	63	577	0	...
	Bac Ninh	H5N1	1	1	avi			Animals	1820	387	290	1530	0	...
	Ca Mau	H5N1	7	8	avi			Animals	5317	918	472	4485	0	...
	Dien Bien	H5N1	1	1	avi			Animals	73	17	17	56	0	...
	Hau Giang	H5N1	7	7	avi			Animals	2687	1599	917	1670	0	...
	Khanh Hoa	H5N1	1	1	avi			Animals	31	27	27	4	0	...
	Lai Chau	H5N1	1	1	avi			Animals	1460	319	210	1250	0	...
	Nghe An	H5N1	1	1	avi			Animals	500	164	164	236	0	...
	Quang	H5N1	2	3	avi			Animals	153	89	74	79	0	...

	Ninh													
	Quang Tri	H5N1	1	1	avi			Animals	1000	250	180	820	0	...
	Soc Trang	H5N1	6	6	avi			Animals	3235	1964	1427	1808	0	...
Mar	Bac Lieu	H5N1	0	2	avi			Animals	...	...	...	...	...	...
	Ca Mau	H5N1	0	6	avi			Animals	...	...	...	...	...	...
	Hau Giang	H5N1	0	7	avi			Animals	...	...	...	...	...	...
	Lai Chau	H5N1	3	4	avi			Animals	1766	1056	901	740	0	...
	Nghe An	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Quang Ninh	H5N1	1	3	avi			Animals	20	13	9	11	0	...
	Quang Tri	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Soc Trang	H5N1	0	6	avi			Animals	...	...	...	...	...	...
Apr	Lai Chau	H5N1	0	3	avi			Animals	...	...	...	...	...	...
	Quang Ngai	H5N1	1	1	avi			Animals	2500	180	160	2340	0	...
	Thanh Hoa	H5N1	1	1	avi			Animals	8600	80	64	1036	0	...
May	Dong Thap	H5N1	1	1	avi			Animals	142	49	49	93	0	...
	Quang Ngai	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Thanh Hoa	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Vinh Long	H5N1	1	1	avi			Animals	1100	280	230	870	0	...
Jun	Dong Thap	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Quang Ninh	H5N1	1	1	avi			Animals	1830	650	504	1326	0	...
	Vinh Long	H5N1	0	1	avi			Animals	...	...	...	...	...	...
Jul	Quang Ninh	H5N1	0	1	avi			Animals	...	...	...	...	...	...
Aug		No	0	0										
Sep		No	0	0										
Oct		No	0	0										
Nov	Ca Mau	H5N1	1	1	avi			Animals	350	184	178	172	0	...
	Lai Chau	H5N1	1	1	avi			Animals	2283	451	327	1956	0	...
Dec	Ca Mau	H5N1	0	1	avi			Animals	...	...	...	...	...	...
	Cao Bang	H5N1	1	1	avi			Animals	53	53	27	26	0	...
	Thai Nguyen	H5N1	2	2	avi			Animals	1052	445	375	677	0	...

Rabies (Domestic)

Domestic Species

Month	Province	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan		No	0	0										
Feb	Cao Bang	No	1	1	can			Animals	1000	10	10	10	0	2000
Mar		No	0	0										
Apr		No	0	0										
May		No	0	0										
Jun	Lai Chau	No	1	1	can			Animals	2000	86	86	0	0	3000
Jul			...	...								
Aug			...	...								
Sep			...	...								
Oct			...	...								

Nov			...	...								
Dec			...	...								

Trichinellosis (Domestic)

Month	Province	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	Son La	No	0	1	sui			Animals	...	...	...	...	...	...
Feb	Son La	No	0	1	sui			Animals	...	...	...	...	...	...
Mar		No	0	0										
Apr		No	0	0										
May		No	0	0										
Jun		No	0	0										
Jul		No	0	0										
Aug		No	0	0										
Sep		No	0	0										
Oct		No	0	0										
Nov		No	0	0										
Dec		No	0	0										

Porcine reproductive/respiratory syndr. (Domestic)**Domestic Species**

Month	Province	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan		No	0	0										
Feb	Bac Lieu	No	1	1	sui			Animals	210	13	9	4	0	0
	Quang Nam	No	6	6	sui			Animals	31000	1201	309	120	310	0
	Quang Ninh	No	3	3	sui			Animals	2130	303	198	12	87	0
Mar	Quang Nam	No	4	8	sui			Animals	31056	1910	298	114	920	0
	Quang Ninh	No	2	3	sui			Animals	2109	672	210	98	132	0
Apr	Quang Nam	No	4	9	sui			Animals	5784	803	213	89	77	0
May		No	0	0										
Jun		No	0	0										
Jul	Bac Lieu	No	1	1	sui			Animals	100	23	12	6	5	0
	Dak Lak	No	1	1	sui			Animals	2100	255	35	269	0	0
	Quang Nam	No	3	3	sui			Animals	2500	388	42	369	36	0
Aug	Ba Ria - Vung Tau	No	2	2	sui			Animals	1000	188	57	120	0	0
	Bac Lieu	No	3	4	sui			Animals	2000	376	38	42	9	0
	Binh Duong	No	1	1	sui			Animals	500	124	21	103	0	0
	Dong Nai	No	1	1	sui			Animals	3000	267	87	227	21	0
	Vinh Long	No	1	1	sui			Animals	100	14	7	7	0	0
Sep	Bac Lieu	No	1	2	sui			Animals	3000	10	4	167	61	0
Oct	Ben Tre	No	7	7	sui			Animals	5000	428	189	454	120	0
	Tien Giang	No	1	1	sui			Animals	4500	528	93	415	54	0
Nov		No	0	0										
Dec	Tien Giang	No	1	1	sui			Animals	126	25	5	20	0	0

Disease information for Vietnam by month from Jan-Dec 2009**Classical swine fever (Domestic)**

Domestic Species

Month	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	No	5	11	sui			Animals	120000	5671	526	210	120	200000
Feb	No	11	22	sui			Animals	100000	3189	371	123	90	150000
Mar	No	15	28	sui			Animals	100000	2180	517	210	98	200000
Apr	No	17	31	sui			Animals	150000	6530	782	120	231	200000
May	No	21	37	sui			Animals	120000	7621	981	231	540	300000
Jun	No	14	29	sui			Animals	21000	1218	317	129	0	30000
Jul	No	17	24	sui			Animals	1500	129	119	10	0	5000
Aug	No	14	19	sui			Animals	5000	973	122	93	32	10000
Sep	No	11	16	sui			Animals	2420	310	227	36	10	4600
Oct	No	15	20	sui			Animals	2430	700	285	102	12	4500
Nov	No	14	19	sui			Animals	2800	169	121	21	3	3000
Dec	No	17	21	sui			Animals	3000	609	323	51	17	5000

Newcastle disease (Domestic)**Domestic Species**

Month	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	No	12	23	avi			Animals	120000	11092	9410	0	0	200000
Feb	No	7	15	avi			Animals	150000	7989	4321	3140	0	300000
Mar	No	15	24	avi			Animals	214240	12698	3190	1769	0	220000
Apr	No	8	21	avi			Animals	210000	8979	4987	2098	0	300000
May	No	9	17	avi			Animals	150000	9800	2100	1209	2190	500000
Jun	No	12	27	avi			Animals	213145	12409	8709	1092	659	300000
Jul	No	129	142	avi			Animals	200000	5033	2388	1324	0	500000
Aug	No	82	140	avi			Animals	500000	6251	3800	2190	0	1000000
Sep	No	71	86	avi			Animals	300000	7343	3697	2130	0	400000
Oct	No	195	263	avi			Animals	310000	8806	4257	2315	0	300000
Nov	No	121	165	avi			Animals	500000	7685	3372	4122	0	1000000
Dec	No	267	389	avi			Animals	2000000	16730	9030	2170	0	3000000

Leptospirosis (Domestic)**Domestic Species**

Month	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	No	23	51	buf			Animals	300000	21000	2198	0	0	0
Feb	No	21	45	bov			Animals	200000	85000	45	0	0	0
Mar	No	21	32	bov			Animals	150000	730000	214	0	0	0
Apr	No	35	51	buf			Animals	144000	35619	210	0	0	0
May	No	21	51	bov			Animals	167000	40154	319	0	0	0
Jun	No	32	61	buf			Animals	210000	45331	457	0	0	0
Jul	No	2	3	sui			Animals	1000	53	12	13	0	0
Aug	No	5	7	sui			Animals	3000	151	19	92	0	0
Sep	No	7	12	sui			Animals	4510	241	89	127	0	0
Oct	No	4	7	sui			Animals	5000	871	363	104	0	0
Nov	No	5	8	sui			Animals	3100	328	146	14	0	0
Dec	No	4	9	sui			Animals	6400	448	132	76	0	0

Haemorrhagic septicaemia (Domestic)**Domestic Species**

Month	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and	Slaughtered	Vaccination in
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											disposed of		response to the outbreak(s)
Jan	No	12	21	bov			Animals	2000	512	141	0	0	5000
Feb	No	8	17	bov			Animals	1500	210	78	0	0	3000
Mar	No	18	32	bov			Animals	3000	549	176	0	0	5000
Apr	No	12	27	buf			Animals	6789	643	120	0	0	15000
May	No	11	23	buf			Animals	3200	267	56	0	0	10000
Jun	No	15	28	buf			Animals	6589	742	113	0	0	12000
Jul	No	71	91	buf			Animals	30000	1251	173	0	0	55000
				sui			Animals	150000	5107	391	0	0	300000
Aug	No	77	125	buf			Animals	21000	866	111	0	0	50000
				sui			Animals	150000	4508	406	0	0	100000
Sep	No	54	121	buf			Animals	25000	1045	96	0	0	50000
				sui			Animals	250000	5486	561	0	0	500000
Oct	No	79	92	sui			Animals	21000	4091	1658	0	0	35000
				buf			Animals	35000	3741	332	0	0	20000
Nov	No	79	103	sui			Animals	50000	6678	509	0	0	100000
				buf			Animals	150000	1455	174	0	0	250000
Dec	No	100	132	buf			Animals	20000	1596	187	0	0	30000
				sui			Animals	30100	8879	1175	0	0	40000

Duck virus hepatitis (Domestic)

Domestic Species

Month	Serotype(s)	New outbreaks	Total outbreaks	Species	Family Name	Latin Name	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Jan	No	12	25	avi			Animals	21000	3092	1209	982	0	30000
Feb	No	3	18	avi			Animals	15000	2314	1146	231	674	20000
Mar	No	5	11	avi			Animals	112000	4268	2579	1956	535	200000
Apr	No	5	14	avi			Animals	31536	3145	1241	231	549	50000
May	No	7	19	avi			Animals	29000	7896	4632	2319	897	400000
Jun	No	12	28	avi			Animals	31520	6129	4518	1120	2013	50000
Jul	No	3	9	avi			Animals	3000	985	230	132	0	5000
Aug	No	16	18	avi			Animals	30000	1525	494	598	0	50000
Sep	No	12	15	avi			Animals	50000	2087	568	3240	0	100000
Oct	No	34	46	avi			Animals	25000	2970	888	983	0	30000
Nov	No	2	45	avi			Animals	1000	41	36	5	0	5000
Dec	No	0	0										

4. Unreported OIE-listed diseases during the reporting period

Multiple species

Anthrax (Wild)	Aujeszky's disease (Wild)	Brucellosis (Brucella abortus) (Wild)
Brucellosis (Brucella melitensis) (Domestic and Wild)	Brucellosis (Brucella suis) (Domestic and Wild)	Echinococcosis/hydatidosis (Domestic and Wild)
Epizootic haemorrhagic disease (Domestic and Wild)	Foot and mouth disease (Wild)	Heartwater (Wild)
Japanese encephalitis (Domestic and Wild)	Leptospirosis (Wild)	Paratuberculosis (Wild)
Q fever (Domestic and Wild)	Rabies (Wild)	Surra (Trypanosoma evansi) (Domestic and Wild)
Tularemia (Domestic and Wild)		

Cattle

Bov. genital campylobacteriosis (Wild)	Bovine anaplasmosis (Wild)	Bovine babesiosis (Wild)
Bovine tuberculosis (Wild)	Bovine viral diarrhoea (Domestic and Wild)	Enzootic bovine leukosis (Wild)
Haemorrhagic septicaemia (Wild)	Inf.bov.rhinotracheit. (IBR/IPV) (Wild)	Trichomonosis (Wild)
Trypanosomosis (Wild)		

Sheep/Goats

Salmonellosis (S. abortusovis) (Wild)	Sheep pox and goat pox (Wild)	
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Swine

Classical swine fever (Wild)	Nipah virus encephalitis (Domestic and Wild)	Porcine cysticercosis (Wild)
Porcine reproductive/respiratory syndr. (Wild)		

Equidae

Contagious equine metritis (Wild)	Dourine (Wild)	Equine infectious anaemia (Wild)
Equine piroplasmiasis (Wild)	Equine rhinopneumonitis (Wild)	Glanders (Wild)

Lagomorphs

Rabbit haemorrhagic disease (Wild)		
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Birds

Avian chlamydiosis (Domestic and Wild)	Avian infect. laryngotracheitis (Domestic and Wild)	Avian infectious bronchitis (Wild)
Avian mycoplasmosis (M. synoviae) (Domestic and Wild)	Fowl cholera (Wild)	Fowl typhoid (Wild)
Infect bursal disease (Gumboro) (Wild)	Marek's disease (Domestic and Wild)	Mycoplasmosis (M. gallisepticum) (Domestic and Wild)
Pullorum disease (Wild)	Turkey rhinotracheitis (Domestic)	

Bees

Acarapisosis of honey bees (Domestic and Wild)	American foulbrood of honey bees (Domestic and Wild)	European foulbrood of honey bees (Domestic and Wild)
Small hive beetle infestation (Domestic and Wild)	Tropilaelaps infestation of honey bees (Domestic and Wild)	Varroosis of honey bees (Domestic and Wild)

Other

Leishmaniosis (Domestic and Wild)		
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Fish

Epizootic ulcerative syndrome (Wild)	Gyrodactylus (Gyrodactylus salaris) (Domestic and Wild)	
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Crustaceans

White spot disease (Wild)	White tail disease (Domestic and Wild)	Yellow head disease (Domestic and Wild)
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5. Summary on non OIE-Listed diseases/infections present in Vietnam

NON OIE-Listed disease	occurrence	Serotype(s)	New outbreaks	Total outbreaks	Species	Control Measures	Official vaccination	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccination in response to the outbreak(s)
Listeriosis (Domestic)	?		bov	GSu T		Animals						
					buf	GSu T		Animals						
Toxoplasmosis (Domestic)	?		bov	GSu T		Animals						
					buf	GSu T		Animals						
					cap	GSu T		Animals						
Blackleg (Domestic)	+()		bov	GSu T		Animals	...	...	...	...	...	...
Botulism (Domestic)	?		bov	GSu T		Animals						
Coccidiosis (Domestic)	?		avi	GSu T		Animals						
					bov	GSu T		Animals						
Distomatosis (liver fluke) (Domestic)	+		bov	GSu T		Animals	...	...	...	...	...	...
					buf	GSu T		Animals	...	...	...	...	...	...
Filariosis (Domestic)	?		bov	GSu		Animals						
Enterotoxaemia (Domestic)	?		bov	GSu		Animals						

Salmonellosis (S. abortusequi) (Domestic)	?		equ	GSu T		Animals						
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6. Non OIE-Listed diseases absent in Vietnam during the reporting period or never reported

7. Detailed quantitative information for non OIE-Listed diseases/infections present in Vietnam

8. Unreported non OIE-Listed diseases

Multiple species

Actinomycosis (Domestic)	Intestinal Salmonella infections (Domestic)	Other clostridial infections (Domestic)
Other pasteurelloses (Domestic)		

Cattle

Warble infestation (Domestic)		
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Sheep/Goats

Caseous lymphadenitis (Domestic)	Contagious ophthalmia (Domestic)	Contagious pustular dermatitis (Domestic)
Foot-rot (Domestic)	Sheep mange (Domestic)	

Swine

Melioidosis (Domestic)	Swine erysipelas (Domestic)	Vibriotic dysentery (Domestic)
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Equidae

Equine coital exanthema (Domestic)	Strangles (Domestic)	Ulcerative lymphangitis (Domestic)
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Birds

Avian encephalomyelitis (Domestic)	Avian leukosis (Domestic)	Avian spirochaetosis (Domestic)
Infectious coryza (Domestic)	Other avian salmonellosis (Domestic)	

Bees

Nosemosis of bees (Domestic)		
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9. Zoonotic diseases in humans

Disease	No information available	Disease absent	Disease present (number of cases unknown)	Disease present (number of cases known)	Human cases	Human deaths
Anthrax				*	6	0
Avian chlamydiosis			*	
Bovine tuberculosis			*	
Brucellosis			*	
Camelpox	*			
Campylobacteriosis			*	
Crimean Congo haemorrhagic fever		*				
Ebola virus disease		*				
Echinococcosis/hydatidosis			*	
Equine encephalomyelitis (Eastern)	*			
Equine encephalomyelitis (Western)	*			
Glanders		*				
Hantavirus pulmonary syndrome			*	
Highly pathogenic avian influenza				*	5	5
Japanese encephalitis			*	
Leishmaniasis	*			
Leptospirosis			*	
Marburg virus disease		*				
Monkey pox	*			
New world screwworm (Cochliomyia hominivorax)		*				
Nipah virus encephalitis		*				
Old world screwworm (Chrysomya)		*				

bezziana)						
Q fever		*				
Rabies				*	125	97
Rift Valley fever		*				
Salmonellosis (S. enteritidis, S. typhimurium)			*		...	...
Swine erysipelas			*		...	...
Toxoplasmosis			*		...	...
Trichinellosis			*		...	...
Tularemia		*				
Variant Creutzfeldt-Jakob disease		*				
Venezuelan equine encephalomyelitis		*				
West Nile Fever		*				

10. Animal population

Species	Production	Total	Units	Number	Units
Bees	Whole country	718913	Hives		Apiaries
Birds	Whole country	247300000	Animals		Establishments
Cattle	Whole country	6337700	Animals		Establishments
Buffaloes	Whole country	2897700	Animals		Establishments
Dogs	Whole country	6000000	Animals		Establishments
Cervidae	Whole country	44581	Animals		Establishments
Equidae	Whole country	121000	Animals		Establishments
Molluscs	Whole country	207804	Tonnes		Establishments
Sheep / goats	Whole country	1483500	Animals		Establishments
Fish	Whole country	1962596	Tonnes		Establishments
Swine	Whole country	26701600	Animals		Establishments
Crustaceans	Whole country	419400	Tonnes		Establishments

11. Veterinarians and veterinary para-professionals

Veterinarians:

	Public sector	Total	Private sector
Animal health and welfare activities	3231	4217	986
Veterinary public health activities	897	964	67
Laboratories	245	314	69
Academic activities and education		130	
Pharmaceutical industry		210	
Private clinical practice		513	
Others		27	
(specify with a short note)	veterinarians who work for other Ministries like Public Health, Defense, etc.		

Veterinary Paraprofessionals

	Public sector	Total	Private sector
Animal health and welfare activities		23227	
'Community Animal Health workers'		25453	
Veterinary public health activities		2623	
Others		...	
(specify with a short note)			

12. National reference laboratories

Name	Contacts	Latitude	Longitude
National Center for Veterinary Diagnosis	Dr. Long Thanh To	21.03	105.85
National Centre for Veterinary Diagnosis	Undetermined	21.03	105.85
National Reference Laboratory for Avian Influenza	Undetermined	20.9965	105.8421
Regional Animal Health Office No. VI	Dr. Duc Luu Bach	10.7957	106.6568

13. Diagnostic Tests

Laboratory	Disease	Test Type
National Center for Veterinary Diagnosis	Classical swine fever	enzyme-linked immunosorbent assay (ELISA)

		NPLA (Neutralising peroxidase-linked assay)
		real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)
		reverse transcription - polymerase chain reaction (RT-PCR)
		virus isolation
	Foot and mouth disease	antigen (Ag) detection ELISA
		ELISA 3ABC
		liquid-phase blocking ELISA
		real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)
		reverse transcription - polymerase chain reaction (RT-PCR)
		virus isolation
	Highly path. avian influenza	haemagglutination inhibition test (HIT)
		intravenous pathogenicity index (IVPI) test
		real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)
		reverse transcription - polymerase chain reaction (RT-PCR)
		virus isolation
		virus neutralisation test (VNT)
	Newcastle disease	haemagglutination inhibition test (HIT)
		real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)
		virus isolation
	Porcine reproductive/respiratory syndr.	enzyme-linked immunosorbent assay (ELISA)
		immunoperoxidase monolayer assay (IPMA)
		real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)
		reverse transcription - polymerase chain reaction (RT-PCR)
		virus isolation

14. Vaccine Manufacturers

Manufacturer	Contacts	Year of start of activity	Year of cessation of activity
National Veterinary Drugs and Vaccines Ltd. Co (NAVETCO)	Quang Thai Pham	1955	
National Veterinary Drugs Enterprise (VETVACO)	Tuan Hung Nguyen	1956	

15. Vaccines

Disease	Manufacturer	Vaccine	Vaccine type	Year of start of production	Year of end of production (if production ended)
Anthrax	National Veterinary Drugs Enterprise (VETVACO)	Anthrax_NVD Enterprise	Live Attenuated Vaccine		
	National Veterinary Drugs and Vaccines Ltd. Co (NAVETCO)	Anthrax_NVDV Co	Live Attenuated Vaccine		
Classical swine fever	National Veterinary Drugs Enterprise (VETVACO)	CSF_NVD Enterprise	Live Attenuated Vaccine		
	National Veterinary Drugs and Vaccines Ltd. Co (NAVETCO)	CSF_NVDV Co	Live Attenuated Vaccine		
Duck virus enteritis	National Veterinary Drugs Enterprise (VETVACO)	Duck plague_NVD Enterprise	Live Attenuated Vaccine		
	National Veterinary Drugs and Vaccines Ltd. Co (NAVETCO)	Duck Plague_NVDV Co	Live Attenuated Vaccine		
Fowl cholera	National Veterinary Drugs Enterprise (VETVACO)	Fowl Cholera_NVD Enterprise	Inactivated Vaccine		
Marek's	National Veterinary Drugs	Newcastle	Live Attenuated		

disease	and Vaccines Ltd. Co (NAVETCO)	Thermorésistant_NVDV Co	Vaccine		
Newcastle disease	National Veterinary Drugs Enterprise (VETVACO)	La Sota_NVD Enterprise	Live Attenuated Vaccine		
	National Veterinary Drugs and Vaccines Ltd. Co (NAVETCO)	Newcastle LA Sota_NVDV Co	Live Attenuated Vaccine		

16. Vaccine production

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