



## APPENDIX 2

## APPENDIX 2

# Tables on FAD Investigations

**TABLE A2.1: FAD investigations by State, 2004–07**

		2004	2005	2006	2007
AK	Alaska	1	3	0	5
AL	Alabama	2	2	5	4
AR	Arkansas	9	10	7	5
AZ	Arizona	28	57	15	12
CA	California	62	25	33	31
CO	Colorado	300	146	24	22
CT	Connecticut	7	4	4	3
DE	Delaware	1	0	0	0
FL	Florida	9	16	6	11
GA	Georgia	26	25	13	25
HI	Hawaii	3	2	1	1
IA	Iowa	11	8	12	10
ID	Idaho	22	20	14	11
IL	Illinois	11	12	3	7
IN	Indiana	9	4	3	14
KS	Kansas	9	10	9	6
KY	Kentucky	10	10	4	17
LA	Louisiana	11	11	6	4
MA	Massachusetts	7	7	3	2
MD	Maryland	1	5	0	0
ME	Maine	0	1	0	1
MI	Michigan	6	6	23	13
MN	Minnesota	9	6	1	4
MO	Missouri	6	3	7	1
MS	Mississippi	3	9	9	6
MT	Montana	6	45	16	4
NC	North Carolina	13	6	10	4
ND	North Dakota	0	1	0	0
NE	Nebraska	13	27	6	9
NH	New Hampshire	4	0	1	0
NJ	New Jersey	7	11	7	5
NM	New Mexico	102	44	24	17
NV	Nevada	10	4	2	0
NY	New York	4	2	1	1

**TABLE A2.1: FAD investigations by State, 2004–07***continued*

		<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
OH	Ohio	7	13	4	9
OK	Oklahoma	10	10	14	5
OR	Oregon	8	5	3	2
PA	Pennsylvania	9	9	5	9
PR	Puerto Rico	5	11	6	4
RI	Rhode Island	0	0	1	1
SC	South Carolina	2	4	9	5
SD	South Dakota	2	7	7	3
TN	Tennessee	23	11	46	16
TX	Texas	142	47	47	30
UT	Utah	4	144	9	7
VA	Virginia	12	15	15	7
VI	Virgin Islands	0	0	1	0
VT	Vermont	7	4	3	6
WA	Washington	14	31	9	4
WI	Wisconsin	34	11	12	8
WV	West Virginia	6	1	2	5
WY	Wyoming	6	130	29	7
Total		1,013	995	491	383

**TABLE A2.2: Complaints, by species, disclosed in FAD investigations, 2006 and 2007**

Complaint	Species		Number	
	Major group	Minor group	2006	2007
Central nervous system (CNS)	Avian	Avian (birds)	5	3
		Chicken, egg-type	3	1
		Chicken, meat-type	2	0
		Poultry (chickens and turkeys)	2	2
		Pet birds	0	1
		<i>Subtotal avian</i>	12	7
		Bovine (cattle)	4	3
	Canine (dogs)	0	0	
	Equine (e.g.,horses, donkeys, mules)	31	5	
	Porcine	Feral swine	1	0
		Hogs	0	0
		<i>Subtotal porcine</i>	3	0
	Rabbits	0	0	
Elk	0	1		
<i>Total CNS</i>		52	17	
Diarrhea and discharge	Avian	Avian (birds)	4	1
		Chicken, egg-type	3	2
		Poultry (chickens and turkeys)	1	0
		Waterfowl, exhibition poultry, and gamebirds	0	0
		Gamefowl	0	0
		Turkey	0	1
		<i>Subtotal avian</i>	8	5
	Bovine (cattle)	2	1	
	Canine (dogs)	1	0	
	Ovine (sheep)	0	0	
	Porcine (hogs)	0	0	
	Rabbits	0	0	
	<i>Total diarrhea and discharge</i>		11	6
Epidemic abortion	Bovine (cattle)	0	3	
	<i>Total Epidemic abortion</i>	0	3	
Hemorrhagic vessels	Bovine (cattle)	0	0	
	Canine (dogs)	0	1	
	Equine (e.g., horses, donkeys, mules)	0	1	
	Ovine (sheep)	0	1	
	Porcine (hogs)	0	0	
	Rabbits	3	1	
	<i>Total hemorrhagic vessels</i>	3	3	

**TABLE A2.2: Complaints, by species, disclosed in FAD investigations, 2006 and 2007**

continued

Complaint	Species		Number	
	Major group	Minor group	2006	2007
High death rate	Avian	Avian (birds)	15	13
		Chicken, egg-type	18	3
		Chicken, meat-type	8	4
		Gamefowl	2	2
		Pet birds	0	1
		Poultry (chickens and turkeys)	6	8
		Turkeys	2	2
		Waterfowl, exhibition poultry, and gamebirds	7	6
		<i>Subtotal avian</i>	<i>58</i>	<i>39</i>
	Bison	0	1	
	Bovine (cattle)	4	1	
	Caprine (goats)	0	2	
	Cervidae	0	1	
	Deer	0	1	
	Elk	0	1	
	Equine (e.g., horses, donkeys, mules)	1	1	
	Fish	1	2	
	Ovine (sheep)	0	1	
	Porcine (hogs)	3	4	
	Rabbits	3	1	
<i>Total high death rate</i>	<i>70</i>	<i>55</i>		
Illegal import surveillance	Avian	Avian (birds)	1	0
		Chicken, egg-type	1	0
		<i>Subtotal avian</i>	<i>2</i>	<i>0</i>
<i>Total illegal import</i>	<i>2</i>	<i>0</i>		
Maggots or ticks	Avian	Avian (birds)	1	0
	Bovine (cattle)		0	2
	Canine (dogs)		2	9
	Caprine (goats)		1	0
	Feline (cats)		2	2
	Rabbits		0	1
	Reptiles		0	1
	Zoological	Aardvark	0	1
	<i>Total maggots and ticks</i>		<i>6</i>	<i>16</i>

**TABLE A2.2: Complaints, by species, disclosed in FAD investigations, 2006 and 2007**

continued

Complaint	Species		Number	
	Major group	Minor group	2006	2007
Positive surveillance sample	Avian	Avian (birds)	1	2
		Chicken, meat-type	1	1
		Gamefowl	0	1
		Poultry (chickens and turkeys)	1	0
		<i>Subtotal avian</i>	<i>3</i>	<i>4</i>
	Bovine (cattle)		1	0
	Crustacean		0	1
	Equine (e.g., horses, donkeys, mules)		2	0
	Ovine (sheep)		0	1
	<i>Total positive surveillance</i>		<i>6</i>	<i>6</i>
Reproductive not abortion	Avian (birds)		0	0
	<i>Total reproductive not abortion</i>		<i>0</i>	<i>1</i>
Respiratory	Avian	Avian (birds)	8	4
		Chicken, egg-type	11	0
		Chicken, meat-type	1	3
		Pet birds	0	1
		Poultry (chickens and turkeys)	3	4
		Turkeys	1	0
		<i>Subtotal avian</i>	<i>24</i>	<i>12</i>
	Bovine (cattle)		5	3
	Caprine (goats)		1	0
	Equine (e.g., horses, donkeys and mules)		0	1
	Ovine (sheep)		1	1
	Porcine (hogs)		3	1
	Rabbits		2	0
	<i>Total respiratory</i>		<i>36</i>	<i>18</i>
Septicemia	Bovine (cattle)		0	0
	Equine (e.g., horses, donkeys, mules)		0	0
	Porcine (hogs)		0	1
	Rabbits		1	0
	<i>Total septicemia</i>		<i>1</i>	<i>1</i>

**TABLE A2.2: Complaints, by species, disclosed in FAD investigations, 2006 and 2007**

continued

Complaint	Species		Number	
	Major group	Minor group	2006	2007
Skin, other than muzzle and feet	Avian	Avian (birds)	0	0
		Chicken, egg-type	0	0
		<i>Subtotal avian</i>	<i>0</i>	<i>0</i>
	Alpaca		0	1
	Bison		0	1
	Bovine (cattle)		9	5
	Caprine (goats)		8	4
	Equine (e.g., horses, donkeys, mules)		12	7
	Ovine (sheep)		2	0
	Porcine (hogs)		3	1
	<i>Total skin</i>		<i>34</i>	<i>19</i>
Vesicular—skin of muzzle and feet	Avian	Pet birds	0	1
	Bison		1	0
	Bovine (cattle)		60	60
	Alpaca		0	2
	Caprine (goats)		20	32
	Cervidae		3	0
	Equine (e.g., horses, donkeys, mules)		204	130
	Exotics	Hedgehog	1	0
	Ovine (sheep)		11	11
	Porcine (hogs)		5	2
	<i>Total vesicular</i>		<i>305</i>	<i>238</i>

**TABLE A2.3: Status of the occurrence of OIE<sup>1</sup>-reportable diseases in the United States, 2007**

<b>Disease</b>	<b>Status</b>	<b>Date of last occurrence/Notes</b>
<b>Multiple-species diseases</b>		
Anthrax	Present	Sporadic/limited distribution
Aujeszky's disease	Present	Sporadic (feral, wild animals)/limited distribution, national eradication program
Brucellosis ( <i>Brucella abortus</i> )	Present	Sporadic—one domestic cattle detection in 2007 (wild animals)/limited distribution/national eradication program
Brucellosis ( <i>Brucella melitensis</i> )	Free	1999
Brucellosis ( <i>Brucella suis</i> )	Present	Sporadic (feral transitional only)/limited distribution/national control program
Bluetongue	Present	Sporadic/limited distribution
Crimean Congo haemorrhagic fever	Free	Never occurred
Echinococcosis/Hydatidosis	?	Sporadic (uncommon in all species)/no detections reported in 2007
Foot-and-mouth disease	Free	1929
Heartwater	Free	Never occurred
Japanese encephalitis	Free	Never occurred
Leptospirosis	Present	
New World screwworm	Free	1982/animal health officials responded to an imported case in a canine in 2007
Old World screwworm	Free	Never occurred/animal health officials responded to an imported case in a canine in 2007
Paratuberculosis	Present	National control program
Q fever	Present	Sporadic
Rabies	Present	
Rift Valley fever	Free	Never occurred
Rinderpest	Free	Never occurred
Trichinellosis	Present	Sporadic (feral, wild animals)/limited distribution/national control program
Tularemia	Present	Sporadic (primarily wild animals)/limited distribution
Vesicular stomatitis	Seasonal	2006, sporadic/limited distribution/no detections reported in 2007
West Nile fever/encephalitis	Present	
<b>Cattle diseases</b>		
Bovine anaplasmosis	Present	
Bovine babesiosis	Present	Limited distribution (endemic in the territories of Puerto Rico and the U.S. Virgin Islands; last U.S. mainland occurrence was in 1943)
Bovine genital campylobacteriosis	Present	Sporadic/limited distribution
Bovine spongiform encephalopathy	Controlled risk	No detection in 2007
Bovine tuberculosis	Present	Sporadic/limited distribution/national eradication program
Bovine viral diarrhea	Present	
Contagious bovine pleuropneumonia	Free	1892



**TABLE A2.3: Status of the occurrence of OIE<sup>1</sup>-reportable diseases in the United States, 2007***continued*

<b>Disease</b>	<b>Status</b>	<b>Date of last occurrence/Notes</b>
<b>Cattle diseases, continued</b>		
Enzootic bovine leucosis	Present	
Hemorrhagic septicemia	?	Sporadic/limited distribution (bison)/no detections reported in 2007
Infectious bovine rhinotracheitis/infectious pustular vulvovaginitis	Present	
Lumpy skin disease	Free	Never occurred
Malignant catarrhal fever (wildebeest only)	Free	Never occurred
Theileriosis	Free	Never occurred
Trichomonosis	Present	
Trypanosomosis (tsetse-transmitted)	Free	Never occurred
<b>Sheep and goat diseases</b>		
Caprine arthritis/encephalitis	Present	
Contagious agalactia	Present	Sporadic (non-Mediterranean form)/limited distribution
Contagious caprine pleuropneumonia	Free	Never occurred
Enzootic abortion of ewes (ovine chlamydiosis)	Present	Sporadic/limited distribution
Maedi-visna	Present	Sporadic/limited distribution
Nairobi sheep diseases	Free	Never occurred
Ovine epididymitis ( <i>Brucella ovis</i> )	Present	Sporadic
Peste des petits ruminants	Free	Never occurred
Salmonellosis ( <i>S. abortusovis</i> )	?	Sporadic/limited distribution/no detections reported in 2007
Scrapie	Present	National eradication program
Sheep pox and goat pox	Free	Never occurred
<b>Equine diseases</b>		
African horse sickness	Free	Never occurred
Contagious equine metritis	Free	2006, import associated
Dourine	Free	1934
Equine encephalomyelitis (Eastern)	Present	Sporadic/limited distribution
Equine encephalomyelitis (Western)	?	Sporadic/limited distribution/no detections reported in 2007
Equine infectious anemia	Present	Sporadic/limited distribution/national control program
Equine influenza	Present	
Equine piroplasmosis	Present	Limited distribution (limited to Puerto Rico and the U.S. Virgin Islands)
Equine rhinopneumonitis	Present	Sporadic
Equine viral arteritis	Present	Sporadic/limited distribution
Glanders	Free	1942
Surra ( <i>Trypanosoma evansi</i> )	Free	Never occurred

**TABLE A2.3: Status of the occurrence of OIE<sup>1</sup>-reportable diseases in the United States, 2007**

continued

<b>Disease</b>	<b>Status</b>	<b>Date of last occurrence/Notes</b>
Venezuelan equine encephalomyelitis	Free	1971
<b>Swine diseases</b>		
African swine fever	Free	Never occurred
Classical swine fever	Free	1976
Nipah virus encephalitis	Free	Never occurred
Porcine cysticercosis	Free	2004
Porcine reproductive and respiratory syndrome	Present	
Swine vesicular disease	Free	Never occurred
Transmissible gastroenteritis	Present	
<b>Avian diseases</b>		
Avian chlamydiosis	Present	Sporadic (wild birds, pet birds, backyard poultry)
Avian infectious bronchitis	Present	
Avian infectious laryngotracheitis	Present	Sporadic (primarily vaccine-related)
Avian mycoplasmosis ( <i>M. gallisepticum</i> )	Present	Sporadic/limited distribution All commercial poultry breeding flocks are under a surveillance program to confirm infection-free status. Commercial table-egg layers may be vaccinated.
Avian mycoplasmosis ( <i>M. synoviae</i> )	Present	Sporadic/limited distribution All commercial poultry breeding flocks are under a surveillance program to confirm infection-free status. Commercial table-egg layers may be vaccinated.
Duck viral hepatitis	Free	1998
Fowl cholera	Present	
Fowl typhoid	Free	1981
High-pathogenicity avian influenza	Free	2004
Infectious bursal disease (gumboro disease)	Present	
Low-pathogenic avian influenza (poultry)	Present	Sporadic (wildlife, backyard-live bird markets) (routine surveillance detected three nonclinical events in three commercial flocks in 2007)
Marek's disease	Present	
Newcastle disease (neurotropic and viscerotropic strains)	Free	2003
Pullorum disease	?	Sporadic/limited distribution (commercial production flocks are free)/no detections reported in 2007
Turkey rhinotracheitis	Present	Sporadic/limited distribution
<b>Lagomorph diseases</b>		
Myxomatosis	?	

**TABLE A2.3: Status of the occurrence of OIE<sup>1</sup>-reportable diseases in the United States, 2007***continued*

<b>Disease</b>	<b>Status</b>	<b>Date of last occurrence/Notes</b>
Rabbit hemorrhagic disease	Free	2005
<b>Bee diseases</b>		
Acarapisosis of honey bees	Present	
American foulbrood of honey bees	Present	
European foulbrood of honey bees	Present	
Small hive beetle infestation ( <i>Aethina tumida</i> )	Present	Sporadic/limited distribution
<i>Tropilaelaps</i> infestation of honey bees	Free	Never occurred
Varroosis of honey bees	Present	
<b>Other listed diseases</b>		
Camelpox	Free	Never occurred
Leishmaniasis	?	Sporadic (canine)/limited distribution
<b>Aquatic animal diseases</b>		
<b>Fish</b>		
Epizootic hematopoietic necrosis	Free	Never occurred
Epizootic ulcerative syndrome	Free	2004 (wild species)
Gyrodactylosis ( <i>Gyrodactylus salaris</i> )	Free	Never occurred
Infectious hematopoietic necrosis	Present	Sporadic/limited distribution
Infectious salmon anemia	Free	2006
Koi herpesvirus disease	Present	
Red Sea bream Iridoviral disease	Free	Never occurred
Spring viremia of carp	Present	Sporadic (wild species)/limited distribution
Viral hemorrhagic septicemia	Present	Sporadic (wild species)/limited distribution
<b>Molluscs</b>		
Abalone viral mortality	Free	Never occurred
Infection with <i>Bonamia ostreae</i>	Free	2006
Infection with <i>Bonamia exitiosus</i>	Free	Never occurred
Infection with <i>Marteilia refringens</i>	Free	Never occurred
Infection with <i>Microcytos roughleyi</i>	Free	Never occurred
Infection with <i>Perkinsus marinus</i>	Present	Sporadic (wild species)/limited distribution
Infection with <i>Perkinsus olseni</i>	Present	Confirmed infection, no clinical disease

**TABLE A2.3: Status of the occurrence of OIE<sup>1</sup>-reportable diseases in the United States, 2007***continued*

<b>Disease</b>	<b>Status</b>	<b>Date of last occurrence/Notes</b>
Infection with <i>Xenchoaliotis californiensis</i>	Free	2006
<b>Crustaceans</b>		
Crayfish plague ( <i>Aphanomyces astaci</i> )	Free	
Infectious hypodermal and haematopoietic necrosis	Free	
Spherical baculovirus ( <i>Penaeus monodon</i> -type baculovirus)	Free	Never occurred
Taura syndrome	Present	Sporadic/limited distribution (Hawaii, routine surveillance detected one nonclinical event in 2007)
Tetrahedral baculovirus ( <i>Baculovirus penaei</i> )	Free	2006
White spot disease	Present	Sporadic/limited distribution (2007-Louisiana; through expanded surveillance activities, WSSV in crayfish considered endemic in Louisiana)
Yellowhead disease	Free	2004

Sporadic = occurring only occasionally.

Limited distribution = limited geographic distribution.

? = presence of the disease suspected but not confirmed.

Free = negative occurrence of the disease.

<sup>1</sup>OIE stands for L'Office International des Epizooties, which changed its name to the World Organization for Animal Health.