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## Occurrence of animal infectious diseases in Japan

In Japan, under the Act on Domestic Animal Infectious Diseases Control (Act No. 166 of 1951), 28 diseases of particular importance for livestock sector, including FMD, CSF, and HPAL, are designated as "Domestic animal infectious diseases." In addition, 71 relevant infectious diseases following Domestic animal infectious diseases are designated as "Notifiable infectious diseases," and their occurrences are monitored by mandatory notification.

In 2021, among the Domestic animal infectious diseases, CSF outbreaks were sporadically reported throughout the year, as in the previous year (see Special Feature 1). In addition, a total of 25 cases of HPAL outbreaks occurred in the 2021-2022 season (see Special Feature 2). Japan maintains the free status of FMD and African swine fever (ASF), which continue to occur in the Asian region. Japan also remains BSE-free. For

bovine tuberculosis and brucellosis, the free status of the domestic cattle herd was confirmed through intensive surveillance conducted for three consecutive years starting in FY2018, and the disease freedom was declared (see COLUMN on page 27). The occurrence of Johne's disease, one of the Domestic animal infectious diseases, and bovine leukosis, one of the Notifiable infectious diseases, are continuously confirmed.

The WOAHP grants official disease status for certain diseases upon request from the member countries, and Japan is officially recognized as free from FMD, BSE and African horse sickness.

Tables 1-2 and 1-3 show the annual number of cases of major Domestic animal infectious diseases and Notifiable infectious diseases.

Table 1-1 Official recognition of specific disease status by WOAHP

FMD	Free country without vaccination (2011)
BSE	Negligible risk (2013)
African horse sickness	Free country (2014)

Table1-2 Number of reported outbreaks of the major Domestic animal infectious disease

(year)

		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Foot and mouth disease	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Infectious encephalitis (pig)	# of farms	3	4	6	2	5	0	0	0	1	0
	# of animals	15	8	8	3	17	0	0	0	2	0
Brucellosis (cattle)	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Tuberculosis (cattle)	# of farms	0	0	1	0	0	0	0	0	0	0
	# of animals	0	0	1	0	0	0	0	0	0	0
Johne's disease (cattle)	# of farms	211	294	326	327	315	374	321	380	399	446
	# of animals	405	573	783	691	624	817	831	1066	809	957
Bovine spongiform encephalopathy	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Scrapie (sheep)	# of farms	0	0	0	0	1	0	0	0	0	0
	# of animals	0	0	0	0	1	0	0	0	0	0
Equine infectious anemia	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Classical swine fever*	# of farms	0	0	0	0	0	0	5	45	10	15
	# of animals	0	0	0	0	0	0	8	102	23	43
African swine fever	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Highly pathogenic avian influenza*	# of farms	0	0	4	2	5	5	1	0	33	25
	# of animals	0	0	18	13	27	33	8	0	113	152
Low pathogenic avian influenza	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Newcastle disease	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Foul brood	# of farms	42	49	57	59	42	30	42	33	39	33
	# of animals	127	230	168	130	89	74	135	104	127	110

\*Only animals diagnosed in accordance with relevant regulations are included in this table (i.e. animals culled as a result of outbreak response are not included in this table)

There were no outbreaks of the following infectious diseases between 2012 and 2021.

Rinderpest, Contagious bovine pleuropneumonia, Rabies, Vesicular stomatitis, Rift valley fever, Anthrax, Hemorrhagic Septicemia, Glanders, African horse sickness, Peste des petits ruminants, Fowl cholera, Avian salmonellosis, Swine vesicular disease.

Table1-3 Number of reported major Notifiable infectious diseases outbreaks

(year)

		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Bluetongue (cattle)	# of farms	0	0	0	0	0	1	0	1	0	0
	# of animals	0	0	0	0	0	2	0	1	0	0
Akabane disease (cattle)	# of farms	5	7	2	3	2	0	0	0	1	0
	# of animals	5	8	2	3	2	0	0	0	1	0
Malignant catarrhal fever	# of farms	0	2	1	1	0	0	1	0	1	0
	# of animals	0	2	1	1	0	0	1	0	1	0
Lumpy skin disease	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Bovine viral diarrhea/ mucosal disease	# of farms	118	120	134	158	222	221	230	207	148	109
	# of animals	189	228	259	310	406	380	382	359	265	235
Infectious bovine rhino- tracheitis	# of farms	20	19	19	14	15	13	4	9	5	12
	# of animals	288	1006	105	129	648	54	7	44	11	36
Bovine leukosis	# of farms	1446	1680	1683	2023	1998	2227	2323	1944	2075	2179
	# of animals	2090	2310	2415	2869	3125	3453	3859	4113	4197	4375
Bovine ephemeral fever	# of farms	5	2	0	11	0	0	0	4	0	0
	# of animals	15	2	0	22	0	0	0	7	0	0
Bovine campylobacterio- sis	# of farms	1	1	0	1	1	3	1	1	0	0
	# of animals	1	1	0	1	1	3	1	1	0	0
Trypanosomiasis (cattle)	# of farms	1	1	1	0	0	0	1	1	0	0
	# of animals	1	1	1	0	0	0	1	1	0	0
Equine influenza	# of farms	0	0	0	0	0	0	0	0	0	0
	# of animals	0	0	0	0	0	0	0	0	0	0
Equine rhinopneumoni- tis	# of farms	25	21	19	25	26	18	24	17	19	13
	# of animals	48	46	54	42	59	34	31	21	37	18
Aujeszky's disease	# of farms	1	0	0	1	0	1	0	0	0	0
	# of animals	3	0	0	5	0	4	0	0	0	0
Transmissible gastro- enteritis	# of farms	1	8	14	0	1	0	0	1	0	2
	# of animals	1	70	469	0	63	0	0	4	0	8
PRRS	# of farms	34	36	19	34	29	23	27	25	19	18
	# of animals	87	157	39	131	82	58	80	58	34	72
Porcine epidemic diar- rhea	# of farms	0	44	836	217	87	66	33	137	35	34
	# of animals	0	180	3885	1088	420	251	173	764	242	202
Infectious bronchitis	# of farms	14	5	13	12	21	25	27	15	25	28
	# of animals	538	48	1058	4717	3029	545	153	127	705	1417
Infectious laryngotra- cheitis	# of farms	5	6	4	5	1	10	2	1	7	8
	# of animals	10	22	15	21	5	13	8	20	16	27
Avian mycoplasmosis	# of farms	1	5	3	6	16	2	6	7	7	1
	# of animals	4	218	14	23	58	8	13	25	28	2
Nosemosis	# of farms	0	3	0	0	5	2	2	3	0	1
	# of animals	0	3	0	0	8	2	4	4	0	1



