

1 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 the livestock sector, including foot and mouth disease (FMD), classical swine fever (CSF) and HPAI, 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 terms of Domestic animal infectious diseases, 2022 marked the largest-ever outbreak of HPAI from fall to the following spring (see Special Feature 1). With regard to CSF, which occurred in Japan in September 2018 for the first time in 26 years, the number of outbreaks has decreased, but sporadic outbreaks continue to be reported. As for FMD and ASF, which continue to

occur in the Asian region, Japan remained disease-free. Surveillance of bovine tuberculosis and brucellosis has continued after disease-free status was achieved, and no new outbreaks have occurred. As for Johne’s disease, outbreaks have been continuously observed.

Among Notifiable infectious diseases, lumpy skin disease, which has recently been spotted in the Asian region, has not yet occurred in our country. The number of bovine leukosis cases has remained high.

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 as shown in Table 1-1.

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)

Table 1-2 Number of reported major Domestic animal infectious diseases outbreaks (year)

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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
Enzootic encephalitis (Swine)	# of farms	4	6	2	5	0	0	0	1	0	1
	# of animals	8	8	3	17	0	0	0	2	0	1
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	1	0	0	0	0	0	0	0	0
	# of animals	0	1	0	0	0	0	0	0	0	0
Johne's disease (Cattle)	# of farms	294	326	327	315	374	321	380	399	446	519
	# of animals	573	783	691	624	817	831	1066	809	957	1147
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	1	0	0	0	0	0	0
	# of animals	0	0	0	1	0	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	6	45	10	15	9
	# of animals	0	0	0	0	0	9	102	23	43	29
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	4	2	5	5	1	0	33	25	66
	# of animals	0	18	13	27	33	8	0	113	152	255
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
Foulbrood	# of farms	49	57	59	42	30	42	33	39	33	26
	# of animals	230	168	130	89	74	135	104	127	110	106

*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 2013 and 2022.
Rinderpest, Contagious bovine pleuropneumonia, Rabies, Vesicular stomatitis, Rift valley fever, Anthrax, Hemorrhagic Septicemia, Glanders, African horse sickness, Ovine rinderpest, Fowl cholera, Avian salmonellosis, Swine vesicular disease.

Table 1-3 Number of reported major Notifiable infectious diseases outbreaks

		2013	2014	2015
Bluetongue (Cattle)	# of Farms	0	0	0
	# of Animals	0	0	0
Akabane disease (Cattle)	# of Farms	7	2	3
	# of Animals	8	2	3
Malignant catrrhal fever	# of Farms	2	1	1
	# of Animals	2	1	1
Lumpy skin disease	# of Farms	0	0	0
	# of Animals	0	0	0
Bovine viral diarrhea	# of Farms	120	134	158
	# of Animals	228	259	310
Infectious bovine rhinotracheitis	# of Farms	19	19	14
	# of Animals	1006	105	129
Bovine leukosis	# of Farms	1680	1683	2023
	# of Animals	2310	2415	2869
Bovine ephemeral fever	# of Farms	2	0	11
	# of Animals	2	0	22
Bovine genital campylobacteriosis	# of Farms	1	0	1
	# of Animals	1	0	1
Trypanosomiasis	# of Farms	1	1	0
	# of Animals	1	1	0
Equine influenza	# of Farms	0	0	0
	# of Animals	0	0	0
Equine rhinopneumonitis	# of Farms	21	19	25
	# of Animals	46	54	42
Aujeszky's disease	# of Farms	0	0	1
	# of Animals	0	0	5
Swine transmissible gastroenteritis	# of Farms	8	14	0
	# of Animals	70	469	0
Porcine reproductive and respiratory syndrome	# of Farms	36	19	34
	# of Animals	157	39	131
Porcine epidemic diarrhea	# of Farms	44	836	217
	# of Animals	180	3885	1088
Avian infectious bronchitis	# of Farms	5	13	12
	# of Animals	48	1058	4717
Avian infectious laryngotracheitis	# of Farms	6	4	5
	# of Animals	22	15	21
Avian mycoplasmosis	# of Farms	5	3	6
	# of Animals	218	14	23
Nosemosis of bees	# of Farms	3	0	0
	# of Animals	3	0	0

							(year)
2016	2017	2018	2019	2020	2021	2022	
0	1	0	1	0	0	0	
0	2	0	1	0	0	0	
2	0	0	0	1	0	1	
2	0	0	0	1	0	1	
0	0	1	0	1	0	0	
0	0	1	0	1	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
222	221	230	207	148	109	76	
406	380	382	359	265	235	119	
15	13	4	9	5	12	4	
648	54	7	44	11	36	12	
1998	2227	2323	1944	2075	2179	2182	
3125	3453	3859	4113	4197	4375	4334	
0	0	0	4	0	0	0	
0	0	0	7	0	0	0	
1	3	1	1	0	0	0	
1	3	1	1	0	0	0	
0	0	1	1	0	0	0	
0	0	1	1	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
26	18	24	17	19	13	18	
59	34	31	21	37	18	25	
0	1	0	0	0	0	0	
0	4	0	0	0	0	0	
1	0	0	1	0	2	0	
63	0	0	4	0	8	0	
29	23	27	25	19	18	28	
82	58	80	58	34	72	72	
87	66	33	137	35	34	6	
420	251	173	764	242	202	32	
21	25	27	15	25	28	19	
3029	545	153	127	705	1417	96	
1	10	2	1	7	8	16	
5	13	8	20	16	27	74	
16	2	6	7	7	1	5	
58	8	13	25	28	2	15	
5	2	2	3	0	1	1	
8	2	4	4	0	1	8	