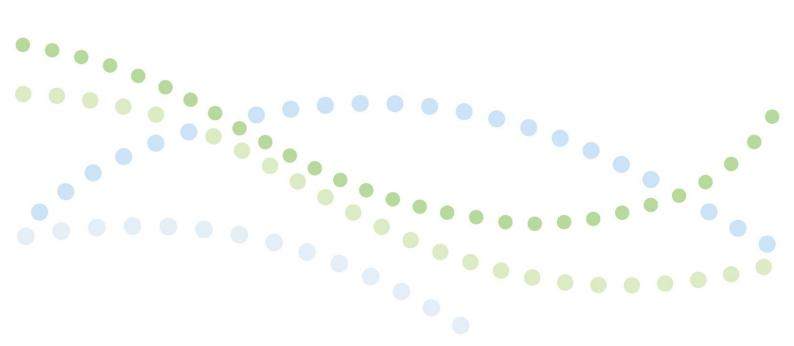


Surveillance Report

Animal Disease Notification and Surveillance

Nov 2022





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1. Compulsory notification and general surveillance

On behalf of the Icelandic Food and Veterinary Authority (MAST), district veterinary officers are responsible for monitoring animal health within each district. All private practicing veterinarians are obliged to be alert and to report any suspicion regarding the diseases, to MAST. Furthermore, according to Act No 25/1993, any person who has a reason to believe that an animal is suffering from an infectious disease covered by the legislation, shall immediately report this to any veterinarian who can be reached or to the police, who shall immediately contact a veterinarian. If a veterinarian sees a reason to take action, he/she shall immediately take steps to confirm the diagnosis and prevent the disease from spreading. If testing shows or a suspicion arises of an infectious disease, previously unknown in the country or specified in Regulation No 52/2014, MAST shall immediately be informed, and precautionary biosecurity measures applied.

Serious notifiable animal diseases (Regulation No 52/2014)

B052 Aujeszkys-veiki Aujeszky´s disease – Pseudorabies – H A090 Blátunga Bluetongue – Reoviridae A010 Gin- og klaufaveiki Foot and Mouth Disease – Picornavirid B352 Hérasótt Tularemia – Francisella tularensis B058 Hundaæði Rabies – Rhabdoviridae B051 Milltisbrandur Anthrax – Bacillus anthracis A020 Munnblöðrubólga Vesicular stomatitis – Rhabdoviridae A080 Rift Valley veiki Rift Valley fever – Bunyaviridae B103/B253 Smitandi fósturlát/Brúsellósa Brucellosis – Brucella-abortus/B. suis/E Horses A110 Afríkönsk hrossapest African horse sickness – Reoviridae B202 Dúrín Dourine – Ondartet beskjelersyke – Trypanosoma equiperdum B205 Smitandi blóðleysi Equine infectious anemia (EIA) – Retro B209 Sníf Glanders – Pseudomonas mallei Cattle: B105 Berklar Tuberculosis – Mycobacterium bovis/tuberculosis – Húðþrimlaveiki Lumpy skin disease – Poxviridae	dae B. melitensis		
A010 Gin- og klaufaveiki Foot and Mouth Disease – Picornavirida B352 Hérasótt Tularemia – Francisella tularensis B058 Hundaæði Rabies – Rhabdoviridae B051 Miltisbrandur Anthrax – Bacillus anthracis A020 Munnblöðrubólga Vesicular stomatitis – Rhabdoviridae A080 Rift Valley veiki Rift Valley fever – Bunyaviridae B103/B253 Smitandi fósturlát/Brúsellósa Brucellosis – Brucella-abortus/B. suis/BHOrses A110 Afríkönsk hrossapest African horse sickness – Reoviridae Dourine – Ondartet beskjelersyke – Trypanosoma equiperdum B205 Smitandi blóðleysi Equine infectious anemia (EIA) – Retrosponda Smitandi blóðleysi Equine infectious anemia (EIA) – Retrosponda Smitandi B105 Berklar Tuberculosis – Mycobacterium bovis/tuberculosis	B. melitensis		
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Cattle: B105 Berklar Tuberculosis – Mycobacterium bovis/tuberculosis			
B105 Berklar Tuberculosis – Mycobacterium bovis/tuberculo			
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A070 Húðhrimlaveiki Lumpy skin disease - Povyiridae	losis		
Auto Huophimaveiki Lumpy skiit uisease – Foxviiluae			
A060 IIIkynja brjósthimnubólga Contagious bovine pleuropneumonia – mycoides mycoides	Mycoplasma		
B115 Kúariða Bovine spongiform encephalopati (BSE) – Pri	ion		
A040 Nautapest Rinderpest - Kvegpest - Pestis bovum - Para	Rinderpest – Kvegpest – Pestis bovum – Paramyxoviridae		
B110 Smitandi barkabólga/fósturlát IBR/IPV – Herpesviridae			
B108 Smitandi hvítblæði Enzootic bovine leucosis (EBL) – Retroviridae	е		
Sheep and goats			
I301 Bítlaveiki Border disease – Hairy shaker disease – Flavivir	ridae		
A100 Fjárbólusótt/geitabólusótt Sheep pox and goat pox – Poxviridae			
A050 Fjárpest Peste des petits ruminants (PPR) – Paramyxovir	ridae		
B156 Fósturlát í ám Enzootic abortion of ewes (EAE) – Chlamydia ps	sittaci		
B155 Geitakregða Contagious caprine pleuropneumonia – Mycopla	asma F38		
B154 Kregðujúgurbólga Contagious agalactia – Mycoplasma ssp.			
B161 Mæði (þurramæði)/Visna Maedi/Visna – Retroviridae			
B160 Riðuveiki Scrapie – Prion			
B159 Salmonella-fósturlát Salmonellosis – Salmonella abortus ovis			
B153 Smitandi liða- og heilabólga í Caprine arthritis and encephalitis (CAE) – Retrov	viridae		
B157 Votamæði Jaagsiekte – Ovine pulmonary adenomatosis – F	Jaagsiekte – Ovine pulmonary adenomatosis – Retroviridae		
Pigs			
A120 Afríkönsk svínapest African swine fever (ASF) – ASF-like virus			



I401	Blöðruþot í svínum	Vesicular exanthema of swine (VES) – Caliciviridae	
A140	IIIkynja grísalömun	Teschen disease – Picornaviridae	
B254	Smitandi maga- og garnabólga	Transmissible gastroenteritis (TGE) – Coronaviridae	
A030	Svínafár	Swine vesicular disease (SVD) – Picornaviridae	
A130	Svínapest	Classical swine fever – Hog cholera – Flaviviridae	
Dogs, cats	and fur animals		
B353	Lifrardrep	Rabbit haemorrhagic disease (VHD) – Parvoviridae	
I501	Maurakláði	Sarcoptes mange – Sarcoptes spp.	
1502	Plasmacytósa	Plasmacytosis – Aleutian disease – Parvoviridae	
1503	Refafár/Minkafár	Distemper – Paramyxoviridae	
1504	Sullaveikifár	Echinococcosis – Echinococcus multilocularis	
Poultry			
A150	Hænsnapest	Avian influenza (AI) – Fowl plague – Orthomyxoviridae	
B313	Hænsnatyfus	Fowl typhoid – Salmonella gallinarum	
B308	Kjúklingasótt	Pullorum disease – Salmonella pullorum	
I601	Nef- og barkabólga	Avian rhinotracheitis (ART) – Pneumoviridae	
A160	Newcastle-veiki	Newcastle Disease (ND) – Paramyxoviridae	
B302	Smitandi kverka- og barkabólga	Infectious laryngotracheitis (ILT) – Herpesviridae	
B305	Veirugarnabólga í öndum	Duck virus enteritis (DVE) – Herpesviridae	
B304	Veirulifrarbólga í öndum	Duck virus hepatitis (DVH) – Picornaviridae	
Fish			
B413	EHN-veiki	Epizootic haematopoietic necrosis – Iridoviridae	
B415	Herpesveiki/OMV-veiki	Herpesvirus salmonis/H. scophthalmi Oncorhynchus masou virus disease	
B405	IHN-veiki	Infectious haematopoietic necrosis – Rhabdoviridae	
I701	IPN-veiki	Infectious pancreas necrosis – Birnaviridae	
1702	ISA-veiki	Infectious salmon anemia – Orthomyxoviridae	
1703	Roðflyðrusýki	Gyrodactylosis – Gyrodactylus salaris	
B404	SVC-veiki	Spring viraemia of carp – Rhabdoviridae	
B401	VHS-veiki	Viral haemorrhagic septicaemia – Rhabdoviridae	
1704	VNN-veiki	Viral nervous necrosis – Nodaviridae	
Molluscs			
B434	Marteilíuveiki	Marteiliosis – Marteilia refringens/M. sydneyi	
B436	Mykrocytos-veiki	Mikrocytosis – Mykrocytos mackini/M. roughleyi	
B431	Ostruveiki	Bonamiosis – Bonamia ostreae/B. sp.	
B433	Perkinsus-veiki	Perkinsosis – Perkinsus marinus/P. olseni	
B432	Sumarveiki í ostrum	Haplosporidiosis – Haplosporidium costale/H. nelsoni	
I801	Velar-veiki	Oyster velar virus disease – Iridoviridae	
Crustacean	s		
I901	Humarveiki	Gaffkemi – Aerococcous viridans	

Other notifiable animal diseases (Regulation No 52/2014)

Multiple species		
1001	Blóðsviti	Parafilariosis – Parafilaria spp.
C702	Fótrot	Footrot – Fusobacterium necrophorum
B059	Garnaveiki	Paratuberculosis – Mycobacterium avium paratuberculosis
1002	Hringskyrfi	Ringworm – Microsporum spp./Trichophyton spp.
B107	Hrýfi	Dermatophilosis – Dermatophilus congolensis
B056	Leptóspírósa/Gulusótt	Leptospirosis – Leptospira spp.
1003	Neosporosis	Nesosporosis – Neospora caninum



D057	0.1% ///	01 0:11 0:
B057	Q-hitasótt	Q-fever – Coxiella burnetii
C619/C855	Salmonella-sýkingar	Intestinal salmonella infections – Salmonella spp. (Other than Salmonella gallinarum/S. pullorum)
B104	Smitandi fósturlát	Bovine genital campylobacteriosis – Campylobacter fetus fetus
B053	Sullaveiki	Echinococcosis – Hydatidosis – Echinococcus granulosus
B255	Tríkínuveiki	Trichinosis – Trichinella spiralis
Horses		
B206	Hestainflúensa	Equine influenza – Orthomyxoviridae
B210	Hrossabóla	Horse pox – <i>Poxviridae</i>
B213	Hrossakláði	Sarcoptic mange – Sarcoptes scabiei var equi
C753	Kverkeitlabólga	Strangles – Streptococcus equi equi
B208	Smitandi háls- og lungnakvef	Equine viral rhinopneumonitis/Equine abortion virus (EHV-1/EHV-4) – Herpesviridae
B204	Smitandi heilabólga	Eastern & Western equine encephalomyelitis – Alphaviridae
B201	Smitandi legbólga	Contagious equine metritis (CEM) – <i>Taylorella equigenitalis</i>
B211	Smitandi slagæðabólga	Equine viral arteritis (EVA) – <i>Arteriviridae</i>
B203	Smitandi sogæðabólga	Epizootic lymhangitis – <i>Histoplasma farciminosum</i>
B216	Venezuela-heilabólga	Equine Venezuelan encephalomyelitis – <i>Alphaviridae</i>
Cattle	vonozacia nenazeiga	Equito venezuolari encoprialerriyondo yapinavinado
B112	Fósturlát í kúm	Trichomonosis – Trichomonas foetus
B114	Illkynja slímhúðarbólga	Malignant catarrhal fever (AHV-1) – Herpesviridae
DITT	llikyrija siiriiridoarboiga	Bovine viral diarrhea/Mucosal disease (MD/BVD) –
C652	Smitandi slímhúðarpest	Flaviviridae
1201	Smitandi öndunarfærabólga	Bovine respiratory syncytial virus (BRSV) – <i>Paramyxoviridae</i>
1202	Veiruskita	Viral diarrhea – Coronaviridae
B106	Vöðvasullur	Bovine cysticercosis – Taenia saginata
Sheep and goa	ts:	
1302	Fellilús	Sheep biting louse – Damalinia ovis
1303	Fjárkláði	Sheep scab – Psoroptes ovis
C706	Fótakláði	Sheep mange – Chorioptes ovis
1304	Færilús	Sheep keds – Melophagus ovinus
B151	Lyppudrep	Ovine epididymitis – Brucella ovis
1305	Vöðvasullur	Ovine cysticercosis – Taenia ovis
Pigs		
1402	Illkynja lungnabólga	Pleuropneumonia – Actinobacillus pleuropneumonia
B257	PRRS-veiki	Porcine respiratory and reproductive syndrome (PRRS)
1403	Smitandi veiruskita	Porcine epidemic diarrhea (PED) - Coronaviridae
B252	Svínabandormur	Porcine cysticercosis – Taenia solium
1404	Svínainflúensa	Swine influenza – Hog flue – Orthomyxoviridae
B256	Ælu- og vanþrifapest	Vomiting & wasting disease – Hemagglutinating encephalomyelitis virus (HEV) – <i>Coronaviridae</i>
Dogs, cats and	fur animals	
1505	Hundafár	Canine distemper – Paramyxoviridae
B501	Leishmaníu-veiki	Canine leishmaniosis – Leishmania spp.
1506	Lungnafár í mink	Hemorrhagic pneumonia – Pseudomonas aeruginosa
1507	Refavanki	Nosematosis – Encephalitozoon cuniculi
1508	Veiruskita í mink	Mink viral enteritis – <i>Parvoviridae</i>
Poultry		
B303	Fuglaberklar	Avian tuberculosis – Mycobacterium avium
B307	Fuglabólusótt	Fowl pox – Poxviridae
B306	Fuglakólera	Fowl cholera – Pasteurella multocida
B311	Fuglakregða	Avian mycoplasmosis – <i>M. gallisepticum/M. meleagridis</i>
		, telesente in gemochatonian motoagnato



B309	Gumboro-veiki	Gumboro disease – Infectious bursal disease (IBD) – Birnaviridae	
B310	Hænsnalömun	Marek's disease – Herpesviridae	
C853	Mænubólga	Avian encephalomyelitis (AE) – Picornaviridae	
1602	Paramyxóveirusýkingar	Avian paramyxovirus (other than Newcastle disease) – Paramyxoviridae	
B312	Páfagaukaveiki	Avian chlamydiosis – Psittacosis – Ornithosis – <i>Chlamydia</i> psittaci – (annað en fósturlát í ám)	
B301	Smitandi berkjubólga	Infectious bronchitis (IB) - Coronaviridae	
1603	Varpröskun	Egg drop syndrome (EDS) – Adenoviridae	
Fish			
1705	Blóðfrumuveirusótt	Erythrocitic inclusion body syndrome (EIBS) – Togaviridae	
1706	Hindberjaveiki	Proliferative kidney disease (PKD)	
1707	Hitraveiki	Coldwater vibriosis – Vibrio salmonicida	
1708	Hvirfilveiki	Whirling disease – Myxobolus cerebralis	
1709	Kýlaveiki	Furunculosis – Aeromonas salm. spp. salmonicida	
I710	Laxalús/Fiskilús	Salmon louse infection – Lepeophtheirus salmonis	
		Marine louse infection - Caligus elongatus	
l711	Nýrnaveiki	Bacterial kidney disease (BKD) – Renibacterium salmoninarum	
I712	PD-veiki/Brisveiki	Pancreas disease (PD) – Togaviridae	
I713	Piskirikketsíuveiki	Piscirickettsiosis – Piscirickettsia salmonis	
1714	Rauðmunnaveiki	Enteric red mouth (ERM) – Yersiniosis – Yersinia ruckeri	
I715	Spírónúkleusveiki	Systemic spironucleosis – Spironucleus barkhanus	
I716	Sundmagasótt	Swimbladder nematode of eel – Anguillicola crassus	
Molluscs			
1802	Sæeyrnaskelormur	Sabellid polychaete – Terebrasabella heterouncinata	
Crustaceans			
1903	Postulínsveiki	Porselenssyke – Thelohania contejeani	
1904	Sveppablettaveiki	Brannflekksyke – Ramularia astaci	
Bees			
B453	Evrópsk býflugnapest	European foulbrood – Streptococcus pluton	
B452	Illkynja býflugnapest	American foulbrood – Bacillus larvae	
B451	Loftsekkjaveiki	Acariosis of bees – Acarapis woodii	
B454	Þarmaveiki	Nosemosis of bees – Nosema apis	
B455	Varróaveiki	Varroosis – <i>Varroa jakobsonii</i>	

Diseases subject to compulsory registration (Regulation No 52/2014)

Multiple species				
C612	Bogfrymlasótt	Toxoplasmosis – Toxoplasma gondii		
1003	Bólusótt	Pox disease – Poxviridae		
C615	Bótulismi	Botulism – Clostridium botulinum		
C616	Clostridíasýkingar	Clostridiosis – Clostridium ssp. (Other than Clostridium chauvoei, Cl. perfringens type C og Cl. botulinum)		
C620	Hníslasótt	Coccidiosis – Eimeria spp./Isospora spp.		
C611	Hvanneyrarveiki	Listeriosis – Listeria monocytogenes		
C613	Ígerðarsótt	Melioidosis – Burkholderia pseudomallei		
C618	Kjálkabris	Actinomycosis – Actinomyces ssp.		
C705/C752	Kýlapest	Caseous lymphadenitis – Ulcerative lymphangitis – Actinobacillus lignieresii/Corynebacterium pseudotuberculosis		
1004	Lungnapest	Pasteurellosis – Pasteurella multocida/P. haemolytica		



C617	Lungnadrep	Other pasteurellosis – Pasteurella ssp. (Other than Pasteurella multocida)			
C614	Pestbjúgur	Blackleg – Clostridium chauvoei			
C621	Ögðuveiki	Liver fluke disease – Distomatosis – Fascicola hepatica			
Horses		<u> </u>			
I101	Herpeskvef	Equine herpesvirus 2 (EHV-2) – Herpesviridae			
C751	Herpesútbrot	Equine coital exhanthema (EHV-3) – Herpesviridae			
l102	Húðsveppur	Trichophyton equinum/T. mentagrophytes			
Sheep and g	oats				
C701	Smitandi munnangur	Orf – Contagious echtyma (CE) – <i>Poxviridae</i>			
1306	Tannlos	Broken mouth			
Pigs					
1405	Bjúgveiki	Edema disease – E. coli O138/O139/O140/O141			
1406	Blóðskita	Swine dysentery – Brachyspira hyodysenteriae			
1407	Garnadrep	Necrotic enteritis – <i>Clostridium perfringens</i> type C			
1408	Gothiti	Mastitis-metritis-agalactia syndrome (MMA)			
C801	Rauðsýki	Swine erysipelas – Erysipelothrix rhusiopathiae			
1409	Smitandi fósturdauði	Porcine parvovirus (PPV) – <i>Parvoviridae</i>			
B251	Snúðtrýni	Atrophic rhinitis of swine – Pasteurella multocida tox +			
I410	Svínakláði	Sarcoptes mange – Sarcoptes scabiei var. suis			
I411	Svínakregða	Endemic pneumonia (EP) – Mycoplasma pneumonia			
l412	Þarmabólga	Porcine intestinal adenomatosis (PIA) – Lawsonia intracellularis			
Dogs, cats a	nd fur animals:				
1509	Eyrnamaur	Ear mites – Otodectes cynotis			
I510	Kattafár	Feline leukemia virus – Retroviridae			
I511	Kattamaur	Cheyletiellosis – Cheyletiella parasitovorax			
l512	Smáveirusótt	Canine parvovirus – Parvoviridae			
I513	Smitandi heila- og lifrarbólga	Hepatitis contagiosa canis (HCC)/Fox encephalitis – (CAV-1) – <i>Adenoviridae</i>			
Poultry:					
1604	Blávængjaveiki	Chicken infectious anemia (CIA) – Parvoviridae			
C856	Hvítblæði	Avian leucosis – Retroviridae			
1605	Fuglakregða	Avian mycoplasmosis – (Other than <i>M. gallisepticum</i> and <i>M. meleagridis</i>)			
Fish					
I718	Fiskaberklar	Mycobacteriosis – Mycobacterium marinum			
l719	Kýlaveikibróðir	Ulcer disease – Aeromonas salm. spp. achromogenes			
1720	Klamydíuveiki	Epitheliocystis – Chlamydia spp.			
1721	Roðdrep í klaklaxi	Ulcerative dermatic necrosis (UDN)			
1722	VEN-veiki	Viral erythrocytic necrosis – <i>Iridoviridae</i>			
1723	Vetrarsár	Winter ulcers – Moritella viscosa			
1724	Víbríuveiki	Vibriosis – <i>Vibrio anguillarum</i>			
1725	Vörtuveiki	Papillomatosis – Herpesviridae			



2. Animal disease surveillance

Infections which can be latent and diseases which do not have clear clinical symptoms are monitored by routine sampling. Farms are selected at random with the limitation that samples must be taken on all farms within a certain time interval. The aim of the surveillance is to detect with 95% confidence at least one positive unit (animal or farm) if the infection is present at a maximum of 5% prevalence. The expected prevalence may vary based on the nature of the disease. The within-herd sample size is determined by the number of animals available for blood sampling. The following sections contain information about sampling and results of analyses for the active surveillance.

2.1. Cattle diseases

2.1.1. Enzootic bovine leucosis

Enzootic bovine leucosis has never been detected. It is a notifiable disease, according to Act No 25/1993. At slaughterhouses, all tumours, suspected to be lymphosarcoma, are reported and sent for diagnosis at the official laboratory at Keldur. In 1993 a serological survey was carried out. Systematic surveillance has been carried out since 2007. See table below.

Table 1 Number of samples analysed for enzootic bovine leucosis

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1993	51	21	51	0
2001	35	-	35	0
2007	-	97	97	0
2008	-	75	75	0
2009	-	79	79	0
2010	-	87	87	0
2011	-	80	80	0
2012	-	80	80	0
2013	-	70	70	0
2014	-	78	78	0
2015	-	63	63	0
2016	-	73	73	0
2017	-	70	70	0
2018	-	75	75	0
2019	-	70	70	0
2020	-	65	65	0
2021	-	74	74	0

2.1.2. Infectious bovine rhinotracheitis/ Infectious pustular vulvovaginitis

Infectious bovine rhinotracheitis/infectious pustular vulvovaginitis is a notifiable disease, according to Act No 25/1993. It was detected for the first time in Iceland in September 2012 in a bulk tank sample from one farm, taken according to the annual surveillance programme; no clinical symptoms were detected at the farm. Immediate notification was sent to OIE. Decision was made to cull all infected animals. In 1993 a serological survey was conducted, and a systematic surveillance has been carried out since 2007. See table below.



Table 2 Number of samples analysed for IBR/IPV

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1993	51	21	51	0
2000	10	1	10	0
2001	39	-	39	0
2007	-	97	97	0
2008	-	76	76	0
2009	-	79	79	0
2010	-	87	87	0
2011	-	80	80	0
2012	-	80	79	1*
2013	36	7	36	0
2014	-	78	78	0
2015	-	63	63	0
2016	-	73	73	0
2017	-	70	70	0
2018	-	75	75	0
2019	-	70	70	0
2020	-	65	65	0
2021	-	74	74	0

^{*} In response to this positive result, samples were taken at all dairy farms in the country (656). One additional sample was positive. All infected animals were slaughtered and a year later it was confirmed that the infection had been eradicated.

2.1.3. Bovine virus diarrhoea

Bovine virus diarrhoea has never been detected. It is a notifiable disease, according to Act No 25/1993. In 1992 and 1994 serological surveys were conducted. Systematic surveillance has been carried out since 2007. See table below.

Table 3 Number of samples analysed for bovine virus diarrhoea

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1992	-	120	120	0
1994	-	167	167	0
2000	10	1	10	0
2001	39	-	39	0
2007	-	97	97	0
2008	-	75	75	0
2009	-	79	79	0
2010	-	87	87	0
2011	-	80	80	0
2012	-	80	80	0
2016	-	73	73	0
2017	-	70	70	0
2018	-	75	75	0
2019	-	70	70	0
2020	-	65	65	0
2021	-	74	74	0



2.1.4. Salmonella Dublin

Salmonella Dublin has never been detected. It is a notifiable disease according to Act No 25/1993. Serological surveillance was initiated in 2012, see table below.

Table 4 Number of samples analysed for Salmonella Dublin

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2012	-	80	80	0
2013	-	70	70	0
2014	-	78	78	0
2015	-	63	63	0
2016	-	73	73	0
2017	-	70	70	0
2018	-	75	75	0
2019	-	70	70	0
2020	-	65	65	0
2021	-	74	74	0

2.1.5. Q-fever

Coxiella burnetti has never been detected in animals. It is a notifiable disease, according to Act No 25/1993. Serological surveillance was initiated in 2012, see table below.

Table 5 Number of samples analysed for Coxiella burnetti

	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
	sampled	sampled	samples	samples
2012	-	80	80	0
2013	-	70	70	0
2014	-	78	78	0
2015	-	63	63	0
2016	-	73	73	0
2017	-	70	70	0
2018	-	75	75	0
2019	-	70	70	0
2020	-	65	65	0
2021	-	74	74	0

2.1.6. Bovine brucellosis

Bovine brucellosis has never been detected in Iceland. It is a notifiable disease, according to Act No25/1993. In 1993 a serological survey was carried out. Systematic surveillance has been carried out since 2007. See table below.



Table 6 Number of samples analysed for bovine brucellosis

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1993	51	21	51	0
2008	80	16	80	0
2009	75	15	75	0
2010	90	18	90	0
2011	80	16	80	0
2012	45	9	45	0
2013	36	7	36	0
2014	76	15	76	0
2016	82	16	82	0
2017	83	17	83	0
2018	84	18	84	0
2019	81	16	81	0
2020	75	15	75	0
2021	80	20	80	0

2.1.7. Bovine spongiform encephalopathy

Bovine spongiform encephalopathy has never been detected. It is a notifiable disease, according to Act No 25/1993. Since 1968, it has been prohibited to import meat- and bone meal and greaves for use in feeding stuffs for livestock, and there has been a ban on feeding meat- and bone meal to ruminants since 1978 and all food producing animals since 2001. In 2004, Iceland was recognized as a negligible BSE risk country, by the OIE International Committee. Since 2000 samples have been taken systematically every year, see table below. Until 2009 samples were taken from cattle displaying behavioural or clinical signs consistent with BSE and cattle more than 24 months of age within the categories of fallen stock, casualty slaughter and routine slaughter. Since 2010 the age criterium has been 30 months for fallen stock and casualty slaughter and 36 months for the category routine slaughter. Only in 1999, 2000, 2006, 2009, 2010 and 2014 cattle were tested due to clinical symptoms, one each year.



Table 7 Number of samples analysed for BSE

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2000	28	-	28	0
2001	422	-	422	0
2002	64	-	64	0
2003	73	-	73	0
2004	120	-	120	0
2005	191	-	191	0
2006	65	-	65	0
2007	91	-	91	0
2008	148	-	148	0
2009	99	-	99	0
2010	101	-	101	0
2011	120	-	120	0
2012	99	-	99	0
2013	100	-	100	0
2014	240	170	240	0
2015	75	43	75	0
2016	140	87	140	0
2017	897	266	897	0
2018	91	36	91	0
2019	12	11	12	0
2020	14	12	14	0
2021	10	9	10	0



2.1.8. Paratuberculosis

In cattle, paratuberculosis was first diagnosed in 1945. Samples are taken from cattle when suspicion of the disease arises and in connection with movement of cattle between surveillance zones. See table below.

Table 8 Number of cattle samples analysed for paratuberculosis

Year	Number of samples from ileum	Number of blood samples (farms)	Number of positive farms
2000	1356	945	1
2001	1705	427	3
2002	450	349	2
2003	1940	455	0
2004	32	649	0
2005	450	684	1
2006	52	430	0
2007	?	231	0
2008	10	0	0
2009	2	23	0
2010	14	111	1
2011	1	40	0
2012	0	43	0
2013	69	69 (1)	0
2014	19	2 (1)	1
2015	19	0	1
2016	18	1	2
2017	5	0	0
2018	3	0	0
2019	19	0	0
2020	1	0	0
2021	0	51 (20)	1



2.2. Sheep diseases

2.2.1. Scrapie

Scrapie has been endemic since 1878. A decision was made in 1986 to start an eradication programme. On farms where scrapie is detected, all sheep are culled. Areas where scrapie has been detected are kept under special surveillance for 10 years. Samples are taken annually from sheep at slaughter and sheep displaying clinical signs compatible with scrapie. See table below.

Table 9 Number of samples analysed for scrapie

Year	Number of	Number of	Number of	Number of	Number of
rear	individuals sampled	farms sampled	negative samples	positive samples	positive farms
2000	7826	-	7822	4	3
2001	7647	-	7638	9	1
2002	5621	-	5609	12	2
2003	7208	-	7189	19	5
2004	9590	-	9569	19 + 2 NOR98	7 + 1 NOR98
2005	3551	-	3542	9	4
2006	3815	-	3794	21	2
2007	5057	-	5041	15 + 1 NOR98	3 + 1 NOR98
2008	3087	-	3029	57 + 1 NOR98	1 + 1 NOR98
2009	1717	123	1710	7	2
2010	3666	353	3661	5	1
2011	3527	197	3526	0 + 1 NOR98	0 + 1 NOR98
2012	2732	-	2732	0	0
2013	3664	155	3662	0 + 2 NOR98	0 + NOR98
2014	3949	193	3947	2	1
2015	5172	294	5142	29 + 1 NOR98	3 + 1 NOR98
2016	2742	127	2731	11	2
2017	3678	217	3669	9	1
2018	3630	291	3609	21	2
2019	3909	313	3888	21	1
2020	7612* ¹	260	7559	53	6
2021	6239*2	262	6183	56	3

^{*1} Including 2412 samples analysed in connection with culling of herds due to scrapie

^{*2} Including 1452 samples analysed in connection with culling of herds due to scrapie



2.2.2. Paratuberculosis

In sheep, paratuberculosis was first diagnosed in 1933. In 1966 a vaccination programme was established. Blood samples are taken if suspicion arises in live animals. At the slaughterhouses, ileum of all adult sheep is inspected and if considered necessary samples are submitted to the official laboratory at Keldur. See table below.

Table 10 Number of sheep samples analysed for paratuberculosis

Year	Number of samples from ileum (farms)	Number of blood samples (farms)	Number of positive farms
2000	15482	138	5
2001	21417	846	12
2002	8353	161	10
2003	11681	231	11
2004	2922	118	7
2005	20400	262	7
2006	10575	205	13
2007	14821	90	5
2008	8609	?	10
2009	387	5	0
2010	22	170 + 13 goats	3
2011	741	735	6
2012	34	0	0
2013	89	266	1
2014	62 (15)	205 (5)	6
2015	93 (31)	72 (18)	13
2016	17 (7)	0	2
2017	10 (10)	0	3
2018	23	0	3
2019	59 (30)	0	6
2020	30 (24)	0	3
2021	10 (6)	2 (1)	5



2.2.3. Ovine Brucellosis

Ovine Brucellosis (*Brucella melitensis*) has never been detected. It is a notifiable disease, according to Act No 25/1993. Systematic surveillance has been carried out since 2012. See table below.

Table 11 Number of sheep samples analysed for paratuberculosis

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2010	100	19	100	0
2012	85	18	85	0
2014	100	20	100	0
2015	45	8	45	0
2016	80	16	80	0
2017	50	10	50	0
2018	75	15	75	0
2019	86	17	86	0
2020	100	20	100	0
2021	100	20	100	0

2.2.4. Maedi-visna

Maedi-visna has not been detected since 1965. It is a notifiable disease, according to Act No25/1993. Systematic surveillance has been carried out since 2012. See table below.

Table 12 Number of sheep samples analysed for maedi-visna

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2012	85	18	85	0
2013	61	-	61	0
2014	100	20	100	0
2015	45	8	45	0
2016	80	16	80	0
2017	78	10	78	0
2018	75	15	75	0
2019	86	17	86	0
2020	100	20	100	0
2021	100	20	100	0



2.2.5. Border Disease

Border Disease has never been detected. It is a notifiable disease, according to Act No 25/1993. Systematic surveillance has been carried out since 2018. See table below.

Table 13 Number of sheep samples analysed for Border Disease

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2018	75	15	75	0
2019	86	17	86	0
2020	100	20	100	0
2021	100	20	100	0



2.3. Swine diseases

2.3.1. Aujezky's disease

Aujeszky's disease has never been detected. It is a notifiable disease, according to Act No25/1993. Samples have been taken occasionally since 1994. See table below.

Table 14 Number of samples analysed for Aujezky's disease

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
1994	-	20	-	0	0
1995	-	1	-	0	0
1997	-	1	-	0	0
1998	-	1	-	0	0
2007	240	8	240	0	0
2014	232	4	232	0	0

2.3.2. Transmissible gastroenteritis and porcine respiratory corona virus

TGE and PRCV have never been detected. They are notifiable diseases, according to Act No 25/1993. Samples have been taken occasionally since 1994. See table below.

Table 15 Number of samples analysed for TGE and PRCV

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
1994	-	20	-	0	0
1998	-	1	-	0	0
2007	240	8	240	0	0
2013	226	4	226	0	0
2018	89	8	89	0	0



2.3.3. Porcine respiratory and reproductive syndrome

PRRS has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1994. See table below.

Table 16 Number of samples analysed for PRRS

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
1994	-	20	-	0	0
1995	-	1	-	0	0
1997	-	1	-	0	0
1998	-	1	-	0	0
1999	-	3	-	0	0
2007	240	8	240	0	0
2009	119	-	119	0	0
2010	210	-	210	0	0
2011	240	9	240	0	0
2012	225	8	225	0	0
2013	226	4	226	0	0
2014	232	4	232	0	0
2015	229	8	229	0	0
2016	225	8	225	0	0
2017	242	8	242	0	0
2018	209	8	209	0	0
2019	285	8	284	1*	0
2020	360	8	357	3*	0
2021	240	8	240	0	0

^{*} Test result was uncertain. Assumed to be false-positive as all other sample from the farm were negative.



2.3.4. Swine influenza

Clinical signs of swine influenza have only been detected in connection with an outbreak of the subtype H1N1 in people. It is a notifiable disease, according to Act No25/1993. Samples have been taken occasionally since 1994. See tables below.

Table 17 Number of samples analysed for swine influenza subtype H3N2

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
1994	-	20	-	0	0
1997	-	1	-	0	0
1998	-	3	-	1* ¹	-
1999	-	3	-	5* ¹	-
2007	240	8	240	0	0
2009	239	8	239	0	0
2010	210	8	210	0	0
2011	240	9	207	33*2	9*2
2012	225	8	225	0	0
2013	226	4	226	0	0
2014	232	4	163	69*2	4*2
2015	229	8	172	57* ²	7 * ²

^{*1} Positive serology. No clinical signs. Repeated sampling negative. Considered false positive.

Table 18 Number of samples analysed for swine influenza subtype H1N1

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
1999	-	3	-	5* ¹	0
2009	370	8	345	25* ²	2
2010	210	8	171	39*2	3
2011	240	9	240	0	0
2012	225	8	225	0	0
2013	226	4	224	2* ¹	1
2014	232	4	186	46* ¹	3
2015	229	8	216	13* ¹	2

^{*1} Positive serology. No clinical signs.

Table 19 Number of samples analysed for Influenza A

Year	Number of individuals sampled	Number of farms	Number of negative samples	Number of positive samples	Number of positive farms
2016	225	8	201	24	1

^{*2} Positive serology. No clinical signs.

^{*2} Considered H1N1 pan2009.



2.4. Horse diseases

2.4.1. Equine infectious anaemia

Equine infectious anaemia has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples were taken from horses intended for export in the period from 1990-2002. A total of 13.082 samples were analysed and all turned out to be negative. Systematic surveillance has been carried out since 2008. See table below.

Table 20 Number of samples analysed for equine infectious anaemia

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
<2003	13.082	-	13.082	0
2008	30	-	30	0
2009	60	-	60	0
2010	50	-	50	0
2011	50	-	50	0
2012	50	50	50	0
2013	50	50	50	0



2.4.2. Equine influenza

Equine influenza has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1990. Systematic surveillance has been carried out since 2008. See table below. Samples are taken from stallions which have had a close contact with at least 100 horses for the past three months prior to sampling and horses with clinical symptoms, if any.

Table 21 Number of samples analysed for equine influenza

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples
1990	18	-	18	0
1995	4	-	4	0
1998	7	-	7	0
2000	15	-	15	0
2004	5	-	5	0
2008	30	-	30	0
2009	60	-	60	0
2010	50	-	50	0
2011	50	-	50	0
2012	50	50	50	0
2013	50	50	50	0
2014	50	50	50	0
2015	50	50	50	0
2016	45	45	45	0
2017	50	50	50	0
2018	50	50	50	0
2019	50	50	50	0
2020	50	50	50	0
2021	50	50	50	0



2.4.3. Equine rhinopneumonitis (EHV-1)

Equine rhinopneumonitis has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1990. Systematic surveillance has been carried out since 2008. See table below. Samples are taken from stallions which have had a close contact with at least 100 horses for the past three months prior to sampling and horses with clinical symptoms, if any.

Table 22 Number of samples analysed for equine rhinopneumonitis

	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
	sampled	sampled	samples	samples
1990	18	-	13	5* ¹
1994	4	-	1	3* ¹
1998	29	-	29	0
2000	11	-	11	0
2004	5	-	5	0
2008*2	35	-	35	0
2009*2	60	-	60	0
2010*3	50	-	50	0
2011*3	50	-	50	0
2012*2	50	50	49	1* ¹
2013*2	49	49	48	1* ¹
2014	50	50	50	0
2015	48	48	48	0
2016	50	50	50	0
2017	50	50	50	0
2018	50	50	50	0
2019	50	50	50	0
2020	50	50	50	0
2021	50	50	50	0

^{*1} No clinical signs. Considered a cross-reaction to EHV-4

^{*2} Diagnostic method: ELISA (enzyme-linked immunosorbent assay).

^{*3} Diagnostic method: CF (compliment fixation test).



2.4.4. Equine viral arteritis

Equine viral arteritis has never been detected. It is a notifiable disease, according to Act No 25/1993. Systematic surveillance was initiated in 2013. See table below. Samples are taken from stallions which have had a close contact with at least 100 horses for the past three months prior to sampling and horses with clinical symptoms, if any.

Table 23 Number of samples analysed for equine viral arteritis

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples
2013	48	48	48	0
2014	50	50	50	0
2015	50	50	50	0
2016	50	50	50	0
2017	50	50	50	0
2018	50	50	50	0
2019	50	50	50	0
2020	50	50	50	0
2021	50	50	50	0



2.5. Poultry diseases

2.5.1. Newcastle disease

Newcastle disease has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1993. Systematic surveillance has been carried out since 2008. See table below.

Table 24 Number of samples analysed for Newcastle disease

.,	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
	sampled	sampled	samples	samples
1993	100	-	100	0
1994	100	-	100	0
1995	100	-	100	0
1996	100	-	99	1* ¹
1997	100	-	100	0
1998	100	-	100	0
2000	100	-	100	0
2002	100	-	91	9* ¹
2007	200	5	199	1* ¹
2008	120	6	120	0
2009	238	6	238	0
2010	180	6	180	0
2011	190*2	8*3	190*2	0
2012	120* ²	6*4	120	0
2013	90	3	90	0
2014	59	2	59	0
2015	221	5	221	0
2016	153	5	153	0
2017	70	10	70	0
2018	66	5	66	0
2019	139	11	139	0
2020	234	23	234	0
2021	319	6	319	0

^{*1} No clinical symptoms. Repeated sampling negative. Probably not APMV-1.

^{*2 100} samples from back-yard flocks. *3 Five back-yard flocks.

^{*4} Three back-yard flocks.



2.5.2. Avian infectious laryngotracheitis

Avian infectious laryngotracheitis has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1995. See table below.

Table 25 Number of samples analysed for avian infectious laryngotracheitis

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples
1995	100	-	99	1*
1998	100	-	100	0
2000	100	-	99	1*
2002	100	-	88	12*
2007	200	5	193	7*
2008	120	6	120	0
2009	238	6	238	0
2012	58	3	58	0
2013	20	1	20	0

^{*} No clinical signs. Repeated sampling negative.

2.5.3. Avian rhinotracheitis

Avian rhinotracheitis has never been detected. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1998. See table below.

Table 26 Number of samples analysed for avian rhinotracheitis

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1998	100	-	100	0
2000	100	-	100	0
2002	100	-	100	0
2007	200	5	200	0
2008	120	6	120	0
2009	20	1	20	0



2.5.4. Avian encephalomyelitis

Avian encephalomyelitis is a notifiable disease, according to Act No 25/1993. Clinical disease has never been detected. Samples have been taken occasionally since 1993. See table below

Table 27 Number of samples analysed for avian encephalomyelitis

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples
1993	100	-	100	0
1994	100	-	100	0
1995	100	÷	100	0
1996	102	-	101	1*1
1997	100	-	100	0
1998	100	-	100	0
2000	100	÷	98	2*1
2002	100	-	83	17* ¹
2008	120	6	120	0
2009	238	6	236	2*2

^{*1} No clinical signs. Repeated sampling negative.

2.5.5. Avian mycoplasmosis (Mycoplasma synoviae)

Large proportion of poultry parent flocks was infected by *Mycoplasma synoviae* during the period from 1995 to 2003 when vaccination was started. Now the infection is considered eradicated. Infections due to *Mycoplasma synoviae* are subject to compulsory registration. Samples have been taken occasionally since 1995. See table below.

Table 28 Number of samples analysed for Mycoplasma synoviae

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1995	110	-	51	59
1996	102	-	81	21
1997	100	-	42	58
1998	100	-	52	48
2000	100	-	100	0
2002/3	100	-	60	40
2009	238	6	238	0
2010	180	6	180	0
2014	90	3	90	0

^{*2} No clinical signs. Considered false positive.



2.5.6. Avian mycoplasmosis (Mycoplasma gallisepticum)

Mycoplasma gallisepticum has never been detected. Infections due to Mycoplasma gallisepticum are notifiable, according to Act No 25/1993. Samples have been taken occasionally since 1995. See table below.

Table 29 Number of samples analysed for Mycoplasma gallisepticum

	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
	sampled	sampled	samples	samples
1995	110	-	110	0
1996	102	-	102	0
1997	100	-	42	0
1998	100	-	52	0
2000	100	-	100	0
2002/3	100	-	60	0
2007	207	14	207	0
2008	120	6	120	0
2009	238	6	238	0
2011	200	2	200	0
2013	100	1	100	0
2014	100	1	100	0
2015	100	1	100	0
2020	340	4	340	0

2.5.7. Avian mycoplasmosis (Mycoplasma meleagridis)

Mycoplasma meleagridis has never been detected. Infections due to Mycoplasma meleagridis are notifiable, according to Act No 25/1993. A survey was conducted in 2011. See table below.

Table 30 Number of samples analysed for Mycoplasma meleagridis

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples



2.5.8. Infectious bronchitis

Infectious bronchitis was frequently detected during the period from 1995 to 2002 but for the last few years it has not been detected in routine surveillance. It is a notifiable disease, according to Act No 25/1993. Samples have been taken occasionally since 1995. See table below

Table 31 Number of samples analysed for infectious bronchitis

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
1995	110	-	16	84
1996	102	-	60	40
1997	100	-	73	27
1998	100	-	13	87
2000	100	-	30	70
2002	100	-	93	7*
2010	180	6	180	0
2011	180	6	180	0
2012	58	3	58	0
2014	20	4	20	0

^{*} No clinical symptoms. Repeated sampling negative.

2.5.9. Gumboro disease

Gumboro disease was last detected in 1998. One survey was conducted in 2014. Following clinical signs in one broiler farm samples were taken on 13 farms. All samples were negative apart from samples from the farm with clinical signs. See table below.

Table 32 Number of samples from poultry analysed for Gumboro disease

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples	Number of positive farms
2014	20	4	20	0	0
2019	149	13	143	6	1



2.5.10. Avian influenza

Avian influenza is a notifiable disease, according to Act No 25/1993. Clinical disease has never occurred. Samples have been taken occasionally since 1995. Systematic surveillance has been carried out since 2006. See tables below.

Table 33 Number of samples from poultry analysed for AI antibodies

	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
. oui	sampled	sampled	samples	samples
1994	100		100	0
1995	100		100	0
1998	100	-	100	0
2000	100	-	100	0
2002	100	-	100	0
2006	352		348	4* ¹
2007	200	5	200	0
2008	120	6	120	0
2009	238	6	238	0
2010	180	6	180	0
2011	90	3	90	0
2012	60	2	60	0
2013	90	3	90	0
2014	59	2	59	0
2015	221	5	221	0
2016	153	5	153	0
2017	70	10	70	0
2018	181	18	181	0
2019	155	11	155	0
2020	234	23	234	0
2021	318	18	318	0

^{*1} H5 positive. No clinical signs.

Table 34 Number of samples from poultry analysed for Al virus

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2011	104	5	102	2*1
2012	60	3	57	3*2
2014	100	5	92	8*2
2015	81	4	74	7* ³
2016	80	4	80	0
2017	3	2	3	0
2018	55	6	55	0

^{*1 1} x InfA CT36, 1 x InfA CT42, H5 negative.

^{*2} InfA CT>40, H5 negative.

^{*3} H5 and H7 negative.



Table 35 Number of faecal samples from wild birds analysed for AI

Year	Number of individuals sampled	Number of places sampled	Number of negative samples	Number of positive samples
2006	1093*a	-	1092	1* ¹
2007	465*a	-	465	0
2008	375*a	-	373	2*2
2009	411*b	-	410	1* ³
2010	205*b	-	201	4*3
2010/11	1078*4	-	1049	29* ⁵
2017	214	-	214	0
2018	21	6	21	0
2019	2	1	2	0
2020	9	8	9	0
2021	17	13	17	0

^{*1} LPH5 positive.

^{*2} H5 and H7 negative. *3 H5 negative.

^{*4} Samples taken in connection with a study done by the US National Wildlife Health Centre and Náttúrustofa Suðurlands

^{*5} H2N5, H3N6, H4N8, H5N2, H6N5, H6N8, H10N5, H11N2, H16N3



2.6. Fish diseases

All Icelandic fish farms have been included in the official national health control programme since 1985. The surveillance also includes farms dealing with wild salmonids. The sampling and diagnostic methods regarding viral examination have been along the lines given in Commission Decision 2001/183/EC, including relevant amendments. Screening of important virus agents causing serious infectious diseases, like Infectious salmon anaemia (ISA), Pancreas disease (PD), Infectious pancreatic necrosis (IPN), Viral haemorrhagic septicaemia (VHS) and Infectious haematopoietic necrosis (IHN), has been a big part of the surveillance program. Until spring 2009, the diagnostic methods were mainly based on EPC, BF-2 and CHSE-214 cell-lines in the routine screening, in addition to clinical signs, gross pathology and histopathological examination of vital organs. In the first years of screening, 150 samples were taken from all farms four times a year. After achieving a "disease-free status", the sample size was decreased down to 30 samples per brood stock farm each year. However, exporting brood fish, farms must deliver at least 60 samples from every year-class of fish with 9 months interval. This frequency of sampling will be unchanged in the future regarding virus screening in general. In the beginning of May 2009, we started up with examination of ISA and PD (and to a large extent also of IPN) by Real-time RT-PCR technique. All stripped males and females in exporting farms have been tested for those diseases since then. Bacterial examination is in general based on the use of blood agar (with or without 2% NaCl, and 5% horse blood). An ELISA method has been used for the detection of BKD (Renibacterium salmoninarum) since 1991, with indirect fluorescent antibody test (IFAT) and/or RT-PCR methodology for confirmation.

2.6.1. Viral haemorrhagic septicaemia (VHS)

Viral haemorrhagic septicaemia is a notifiable disease, according to Act No 25/1993. In October 2015, VHS-virus was detected for the first time in lumpfish of wild origin in Iceland in a marine research farm which had had no connection with the salmonid aquaculture. The lumpfish VHS-virus was sequenced by the European Reference Laboratory for Fish Diseases in Denmark and blasted towards other known genotypes. The results showed a totally new appearance of VHSV subtype, most likely a highly host specific and a unique variant for lumpfish. Iceland obtained formally a disease-free status for VHS by the fish health authority of the European Union in 2004. Following the virus detection in the wild lumpfish in 2015 the disease-free status was suspended temporarily. After stamping out in the research farm, Icelandic authorities started up with a new process of achieving VHS-free status for the broodfish companies of Atlantic salmon and Arctic char. This recognition was confirmed on 2 May 2016. Routine sampling has been performed since 1985 and since 2016 VHS samples have also been analysed by Real-time RT-PCR, in addition to culture on cell-lines. See tables below.

2.6.2. Infectious haematopoietic necrosis (IHN)

Infectious haematopoietic necrosis has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 1985. See table below.

2.6.3. Infectious pancreatic necrosis (IPN)

Infectious pancreatic necrosis is a notifiable disease, according to Act No 25/1993. An avirulent marine IPNV was detected for the first time in farmed Atlantic salmon in a sea-cage farm in late 2019. Routine sampling has been performed since 1985 and test results from tens of thousands of samples show no indication of disease at freshwater sites. Consequently, Iceland is regarded as being free from IPN. Since 2010, samples have been analysed for IPN partly on cell lines and partly by Real-time RT-PCR. See tables below.



Table 36 Number of samples analysed for VHS, IHN and IPN

Year	Number of individuals sampled	Number of farms sampled	Number of positive samples
1985	1.214	-	0
1986	5.591	-	0
1987	9.121	÷	0
1988	10.503	-	0
1989	4.854	÷	0
1990	6.831	-	0
1991	5.603	-	0
1992	2.763	-	0
1993	949	-	0
1994	610	16	0
1995	775	18	0
1996	601	17	0
1997	945	21	0
1998	806	19	0
1999	860	17	0
2000	696	15	0
2001	706	15	0
2002	533	12	0
2003	885	13	0
2004	1.109	16	0
2005	725	13	0
2006	524	13	0
2007	669	16	0
2008	812	15	0
2009	963	15	0
2010	1.220	13	0
2011	310	12	0
2012	335	12	0
2013	394	10	0
2014	432	12	0
2015	753	13	1* ¹
2016	1.155	12	0
2017	1.127	13	0
2018	966	12	0
2019	1.178	13	1*2
2020	1.509	11	0
2021	1.076	13	0

^{*1} VHS-virus positive lumpfish of wild origin in one farm *2 IPN-virus Atl. Salmon in one marine farm (avirulent without any clinical symptoms and mortality.



Table 37 Number of samples analysed for VHSV

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2016	462	5	462	0
2017	614	5	614	0
2018	1.094	5	1.094	0
2019	931	5	931	0

Table 38 Number of samples analysed for IPN

Year	Number of individuals sampled	Number of farms sampled	Number of positive farms
2010	928	4	0
2011	3.450	4	0
2012	1.988	3	0
2013	332	2	0
2015	2.570	2	0
2016	784	2	0
2017	2.030	2	0
2018	1.459	6	0
2019	912	6	1* ¹
2020	1.355	5	0
2021	2.422	10	1* ¹

^{*1} IPN-virus positive Atl. Salmon in one marine farm (avirulent without any clinical symptoms and mortality).

2.6.4. Viral nervous necrosis/ viral encephalopathy and retinopathy (VNN/VER)

Viral nervous necrosis has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling was performed during halibut farming from 2000 to 2010. See table below.

Table 39 Number of samples analysed for VNN/VER

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2000	45	1	45	0
2001	140	1	140	0
2002	75	1	75	0
2003	90	1	90	0
2004	90	1	90	0
2005	30	1	30	0
2006	30	1	30	0
2007	30	1	30	0
2008	30	1	30	0
2009	30	1	30	0
2010	32	1	32	0

Halibut farming ceased in 2011.



2.6.5. Infectious salmon anaemia (ISA)

Infectious salmon anaemia has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2009. See table below.

Table 40 Number of samples analysed for ISA

Vaar	Number of	Number of	Number of	Number of
Year	individuals sampled	farms sampled	ISA HPR0 positive samples	ISA HPR-del positive farms
2009	2.764	2	48*1	0
2010	4.644	4	56* ¹	0
2011	8.206	3	67* ¹	0
2012	8.230	2	47* ¹	0
2013	10.777	2	118* ¹	0
2014	10.310	3	46* ¹	0
2015	14.151	8	49* ¹	0
2016	13.427	8	39* ¹	0
2017	13.296	8	31* ¹	0
2018	10.817	8	55* ¹	0
2019	7.391	7	12* ¹	0
2020	7.078	5	4* ¹	0
2021	8.403	12	21* ¹	1* ²

^{*1} Low/non pathogenic ISAv (HPR0).

2.6.6. Pancreas disease (PD/SAV)

Pancreas disease has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2009. See table below.

Table 41 Number of samples analysed for PD/SAV

	Number of	Number of	Number of	Number of
Year	individuals	farms	negative	positive
	sampled	sampled	samples	samples
2009	1.908	2	1.908	0
2010	4.504	2	4.504	0
2011	8.206	3	8.206	0
2012	7.530	2	7.530	0
2013	8.506	2	8.506	0
2014	8.772	2	8.772	0
2015	9.247	4	9.247	0
2016	5.644	3	5.644	0
2017	5.074	4	5.074	0
2018	7.390	5	7.390	0
2019	4.488	6	4.488	0
2020	4.323	5	4.323	0
2021	3.437	11	3.437	0

^{*2} Pathogen ISAv (HPR-del)



2.6.7. Piscine myocarditis virus disease

Piscine myocarditis virus has never been detected. Surveillance was initiated in 2013. See table below.

Table 42 Number of samples analysed for piscine myocarditis virus.

Year	Number of individuals sampled	Number of farms sampled	Number of negative samples	Number of positive samples
2013	902	3	902	0
2014	4.713	3	4.713	0
2015	3.369	7	3.369	0
2016	1.689	7	1.689	0
2017	3.094	5	3.094	0
2018	6.497	6	6.497	0
2019	3.286	5	3.286	0
2020	3.233	3	3.233	0
2.708	2.708	4	2.708	0

2.6.8. Heart and skeletal muscle inflammation (HSMI)

Heart and skeletal muscle inflammation is widespread. According to Act No 25/1993 detection shall be reported to the veterinary authorities. Routine sampling has been performed since 2011. See table below.

Table 43 Number of samples analysed for HSMI

	Number of	Number of	Percentage
Year	individuals	farms	of positive
	sampled	sampled	samples
2011	60	1	0 – 100%
2013	60	3	0 – 100%
2015	567	6	0 – 100%
2016	840	6	0 – 70%
2017	2.707	5	0 – 60%
2018	2.385	4	31%
2019	2.116	5	1,1%
2020	3.482	8	4,1%
2021	3.694	10	5,6%



2.6.9. Salmon Gill Pox (SGP)

Salmon Gill Pox is widespread. Routine sampling has been performed since 2017. See table below.

Table 44 Number of samples analysed for HSMI

Year	Number of individuals sampled	Number of farms sampled	Percentage of positive samples
2017	52	5	38%
2018	450	4	1,3%
2019	1.388	5	11,2%
2020	1.531	8	4,3%
2021	1.888	13	6,6%

2.6.10. Enteric Redmouth Disease (ERD)

Enteric Red Mouth is widespread. Routine sampling has been performed since 2015. See table below.

Table 45 Number of samples analysed for HSMI

Year	Number of individuals sampled	Number of farms sampled	Number of positive samples
2015	31	2	0
2016	496	2	0
2017	1.263	2	0
2018	1.444	2	0
2019	943	2	0
2020	1.235	2	0
2021	2.214	2	0



2.6.11. Bacterial kidney disease (BKD)

Bacterial kidney disease occurs sporadically. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 1985. See tables below.

Table 46 Number of samples from farmed salmon analysed for BKD

Year	Number of individuals sampled	Number of farms sampled	Number of positive farms	
1991	435	12	0	
1992	558	13	1	
1993	453	14	1	
1994	522	12	4	
1995	431	8	1	
1996	594	8	0	
1997	337	10	0	
1998	362	8	1	
1999	316	7	0	
2000	361	6	0	
2001	312	6	0	
2002	357	7	1	
2003	713	6	1	
2004	1.306	8	3	
2005	2.052	16	3	
2006	3.048	19	4	
2007	3.169	16	1	
2008	3.134	11	0	
2009	3.930	19	0	
2010	2.839	12	1	
2011	1.006	11	2	
2012	1.399	12	0	
2013	1316	10	0	
2014	1.989	13	2	
2015	1.994	12	0	
2016	1.393	18	3	
2017	3.800	23	2	
2018	5.550	25	1	
2019	5.464	21	0	
2020	5.196	21	0	
2021	3.790	26	1	



Table 47 Number of samples from wild salmon analysed for BKD

Year	Number of individuals sampled	Number of rivers sampled	Number of positive samples	Number of positive rivers
1991	569	49	8	5
1992	470	55	13	8
1993	403	50	3	3
1994	333	38	2	2
1995	349	38	4	2
1996	253	38	1	1
1997	407	45	0	0
1998	291	37	0	0
1999	240	40	0	0
2000	242	38	1	1
2001	602	38	1	1
2002	530	49	3	2
2003	827	50	4	2
2004	1.279	51	35	6
2005	1.160	48	7	1
2006	1.359	52	157	26
2007	1.757	54	174	32
2008	1.775	48	463	35
2009	1.370	44	340	33
2010	905	38	87	15
2011	929	33	97	20
2012	620	25	38	10
2013	664	29	23	16
2014	628	24	14	6
2015	639	18	13	4
2016	767	14	27	3
2017	863	14	16	4
2018	666	15	39	9
2019	543	15	5	3
2020	728	18	10	4
2021	797	17	16	6



2.7. Molluscs

2.7.1. Marteilia refringens

As far as known, *Marteilia refringens* does not exist in blue mussel (*mytilus edulis*) at the Icelandic shore. Samples were taken in 2010, 2011, 2015, 2016 and 2017. See table below.

Table 48 Number of samples analysed for Marteilia refringens.

Year	Number of individuals sampled	Number of sites sampled	Number of negative samples	Number of positive samples
2010	60	2	60	0
2011	30	1	30	0
2015	30	1	30	0
2016	30	1	30	0
2017	60	2	60	0
2020	60	2	60	0

2.7.2. Perkinsus marinus, Microcytos mackini, Haplosporidium spp.

Pacific oyster (*Crassostrea gigas*) was imported for the first time in 2013. Surveillance for Perkinsus marinus, Microcytos mackini and *Haplosporidium* spp started in 2018. See table below.

Table 49 Number of samples analysed for Perkinsus marinus, Microcytos mackini, Haplosporidium spp..

Year	Number of individuals sampled	Number of sites sampled	Number of negative samples	Number of positive samples
2018	41	1	41	0



2.8. Fur animals

2.8.1. Plasmacytosis

Plasmacytosis has been detected a few times in farmed mink, last time in 2008. It is a notifiable disease, according to Act No 25/1993. Routine sampling was performed voluntarily by farmers for many years but it was made mandatory in 2007. See table below.

Table 50 Number of samples from farmed mink analysed for plasmacytosis

Year	Number of individuals	Number of farms	Number of negative	Number of positive
i Gai	sampled	sampled	samples	samples
2006	2.731	21	2.647	0
2007	3.220	22	3.220	0
2008	3.153	21	3.150	3
2009	3.201	21	3.201	0
2010	3.235	20	3.235	0
2011	3.999	22	3.999	0
2012	3.822	22	3.822	0
2013	4.486	27	4.486	0
2014	4.703	29	4.703	0
2015	-	-	-	-
2016	4.160	30	4.160	0
2017	3.346	22	3.346	0
2018	2.643	15	2.643	0
2019	1.385	-	1.385	0
2020	1.020	7	1.020	0
2021	1.833	9	1.833	0

2.8.2. SARS-CoV-2 (Covid-19)

SARS-CoV-2 has never been detected in mink. Sampling was initiated in November 2020.

Table 51 Number of samples from farmed mink analysed for SARS-CoV-2

Year	Number of individuals	Number of farms	Number of negative	Number of positive
	sampled	sampled	samples	samples
2020	125	9	125	0



2.9. Dogs

2.9.1. Echinococcus granulosus

Echinococcus granulosus has not been detected in animals since 1979 in a sheep. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2016. See table below.

Table 52 Number of samples from dogs analysed for Echinococcus granulosus

Year	Number of individuals sampled	Number of places sampled	Number of negative samples	Number of positive samples
2016	36	-	36	0
2017	44	-	44	0
2018	42	-	42	0

2.9.2. Echinococcus multilocularis

Echinococcus multilocularis has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2016. See table below.

Table 53 Number of samples from dogs analysed for Echinococcus multilocularis

Year	Number of individuals sampled	Number of places sampled	Number of negative samples	Number of positive samples
2016	36	-	36	0
2018	42	-	42	0



2.10. Wild foxes

2.10.1. Echinococcus granulosus

Echinococcus granulosus has not been detected in animals since 1979 in a sheep. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2016. See table below.

Table 54 Number of samples from dogs analysed for Echinococcus granulosus

Year	Number of individuals sampled	Number of places sampled	Number of negative samples	Number of positive samples
2016	19	-	19	0
2017	40	-	40	0
2018	31	-	31	0

2.10.2. Echinococcus multilocularis

Echinococcus multilocularis has never been detected. It is a notifiable disease, according to Act No 25/1993. Routine sampling has been performed since 2016. See table below.

Table 55 Number of samples from dogs analysed for Echinococcus multilocularis

Year	Number of individuals sampled	Number of places sampled	Number of negative samples	Number of positive samples
2016	19	-	19	0
2017	40	-	40	0
2018	31	-	31	0

^{*}Results not yet available



2.11. Vectors

2.11.1. Culicoides spp

Surveillance for Culicoides spp was initiated in 2015. See table below.

Table 56 Number of samples analysed for Culicoides spp

Year	Number of	Number of	Number of
i Cai	traps	samples	Culicoides
2015	3	9	0
2016	5	24	3*1
2017	2	9	0
2018	3	15	*2

^{*1} Two C. grisescens and one C. riouxi

^{*2} Results not yet available



2.12. Reindeer

2.12.1. Chronic Wasting Disease

Chronic Wasting Disease has never been detected. Routine sampling has been performed since 2016. See table below.

Table 57 Number of samples from reindeer analysed for Chronic Wasting Disease

Year	Number of individuals sampled	Number of negative samples	Number of positive samples
2016	15	15	0
2017	54	54	0
2018	100	100	0
2019	114	114	0
2020	33	33	0
2021	3	3	0