



Foras na Mara
Marine Institute

AQUATIC DISEASE GUIDE

– EU ANIMAL HEALTH

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DESCRIPTION

This document provides a brief overview of aquatic diseases covered under EU Animal Health Law which entered into force on 21/04/2021. It outlines Ireland's health status for each disease and lists their susceptible and vector species. This has been prepared for information purposes only. For more detailed information, please consult the relevant EU legislation on

<https://eur-lex.europa.eu/>

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Note on revised disease categorisation in new AHL

Under new EU animal health legislation, the Exotic/Non-Exotic categorisation for aquatic diseases which had been used under Directive 2006/88/EC no longer applies.

This has been replaced with the following set of categories which can be found in Article 1 of Commission Implementing Regulation (EU) 2018/1882:

Disease Category	Definition
A	listed disease that does not normally occur in the Union and for which immediate eradication measures must be taken as soon as it is detected, as referred to in Article 9(1)(a) of Regulation (EU) 2016/429
B	listed disease which must be controlled in all Member States with the goal of eradicating it throughout the Union, as referred to in Article 9(1)(b) of Regulation (EU) 2016/429
C	listed disease which is of relevance to some Member States and for which measures are needed to prevent it from spreading to parts of the Union that are officially disease-free or that have eradication programmes for the listed disease concerned, as referred to in Article 9(1)(c) of Regulation (EU) 2016/429
D	listed disease for which measures are needed to prevent it from spreading on account of its entry into the Union or movements between Member States, as referred to in Article 9(1)(d) of Regulation (EU) 2016/429
E	listed disease for which there is a need for surveillance within the Union, as referred to in Article 9(1)(e) of Regulation (EU) 2016/429.

Disease Name	Acronym	Disease Category	Legislation		Ireland's Health Status	Susceptible Species	Vector Species
			Listed Disease	National Measures			
Epizootic Haematopoietic Necrosis	EHN	A+D+E	*		Declared Disease-Free	Rainbow trout (<i>Oncorhynchus mykiss</i>), redfin perch (<i>Perca fluviatilis</i>)	Bighead carp (<i>Aristichthys nobilis</i>), goldfish (<i>Carassius auratus</i>), crucian carp (<i>Carassius carassius</i>), common carp and koi carp (<i>Cyprinus carpio</i>), silver carp (<i>Hypophthalmichthys molitrix</i>), chub (<i>Leuciscus spp.</i>), roach (<i>Rutilus rutilus</i>), rudd (<i>Scardinius erythrophthalmus</i>), tench (<i>Tinca tinca</i>)
Viral Haemorrhagic Septicaemia	VHS	C+D+E	*		Declared Disease-Free	Herring (<i>Clupea spp.</i>), whitefish (<i>Coregonus spp.</i>), pike (<i>Esox lucius</i>), haddock (<i>Melanogrammus aeglefinus</i>), Pacific cod (<i>Gadus macrocephalus</i>), Atlantic cod (<i>Gadus morhua</i>), Pacific salmon (<i>Oncorhynchus spp.</i>) rainbow trout (<i>Oncorhynchus mykiss</i>), rockling (<i>Onos mustelus</i>), brown trout (<i>Salmo trutta</i>), turbot (<i>Scophthalmus maximus</i>), sprat (<i>Sprattus sprattus</i>), grayling (<i>Thymallus thymallus</i>), olive flounder (<i>Paralichthys olivaceus</i>), marble trout (<i>Salmo marmoratus</i>), lake trout (<i>Salvelinus namaycush</i>), wrasse (<i>Labridae spp.</i>), lumpfish (<i>Cyclopteridae spp.</i>)	Beluga (<i>Huso huso</i>), Danube sturgeon (<i>Acipenser gueldenstaedtii</i>), sterlet sturgeon (<i>Acipenser ruthenus</i>), starry sturgeon (<i>Acipenser stellatus</i>), sturgeon (<i>Acipenser sturio</i>), Siberian sturgeon (<i>Acipenser baerii</i>), bighead carp (<i>Aristichthys nobilis</i>), goldfish (<i>Carassius auratus</i>), crucian carp (<i>Carassius carassius</i>), common carp and koi carp (<i>Cyprinus carpio</i>), silver carp (<i>Hypophthalmichthys molitrix</i>), chub (<i>Leuciscus spp.</i>), roach (<i>Rutilus rutilus</i>), rudd (<i>Scardinius erythrophthalmus</i>), tench (<i>Tinca tinca</i>), North African catfish (<i>Clarias gariepinus</i>), pike (<i>Esox lucius</i>), catfish (<i>Ictalurus spp.</i>), black bullhead (<i>Ameiurus melas</i>), channel catfish (<i>Ictalurus punctatus</i>), pangas catfish (<i>Pangasius pangasius</i>), pike perch (<i>Sander lucioperca</i>), wels catfish (<i>Silurus glanis</i>), European seabass (<i>Dicentrarchus labrax</i>), striped bass (<i>Morone chrysops x Morone saxatilis</i>), flathead grey mullet (<i>Mugil cephalus</i>), red drum (<i>Sciaenops ocellatus</i>), meagre (<i>Argyrosomus regius</i>), shi drum (<i>Umbrina cirrosa</i>), true tuna (<i>Thunnus spp.</i>), Atlantic bluefin tuna (<i>Thunnus thynnus</i>), white grouper (<i>Epinephelus aeneus</i>), dusky grouper (<i>Epinephelus marginatus</i>), Senegalese solea (<i>Solea senegalensis</i>), common sole (<i>Solea solea</i>), common pandora (<i>Pagellus erythrinus</i>), common dentex (<i>Dentex dentex</i>), gilthead seabream (<i>Sparus aurata</i>), white seabream (<i>Diplodus sargus</i>), black spot seabream (<i>Pagellus bogaraveo</i>), red sea bream (<i>Pagrus major</i>), sharpnout seabream (<i>Diplodus puntazzo</i>), common two-banded seabream (<i>Diplodus vulgaris</i>), red porgy (<i>Pagrus pagrus</i>), tilapia spp. (<i>Oreochromis</i>), brook trout (<i>Salvelinus fontinalis</i>), arctic charr (<i>Salvelinus alpinus</i>)
Infectious Haematopoietic Necrosis	IHN	C+D+E	*		Declared Disease-Free	Chum salmon (<i>Oncorhynchus keta</i>), coho salmon (<i>Oncorhynchus kisutch</i>), Masou salmon (<i>Oncorhynchus masou</i>), rainbow trout (<i>Oncorhynchus mykiss</i>), sockeye salmon (<i>Oncorhynchus nerka</i>), pink salmon (<i>Oncorhynchus rhodurus</i>), chinook salmon (<i>Oncorhynchus tshawytscha</i>), Atlantic salmon (<i>Salmo salar</i>), lake trout (<i>Salvelinus namaycush</i>), marble trout (<i>Salmo marmoratus</i>), brook trout (<i>Salvelinus fontinalis</i>), arctic charr (<i>Salvelinus alpinus</i>), whitespotted charr (<i>Salvelinus leucomaenis</i>)	Beluga (<i>Huso huso</i>), Danube sturgeon (<i>Acipenser gueldenstaedtii</i>), sterlet sturgeon (<i>Acipenser ruthenus</i>), starry sturgeon (<i>Acipenser stellatus</i>), sturgeon (<i>Acipenser sturio</i>), Siberian sturgeon (<i>Acipenser baerii</i>), bighead carp (<i>Aristichthys nobilis</i>), goldfish (<i>Carassius auratus</i>), crucian carp (<i>Carassius carassius</i>), common carp and koi carp (<i>Cyprinus carpio</i>), silver carp (<i>Hypophthalmichthys molitrix</i>), chub (<i>Leuciscus spp.</i>), roach (<i>Rutilus rutilus</i>), rudd (<i>Scardinius erythrophthalmus</i>), tench (<i>Tinca tinca</i>), North African catfish (<i>Clarias gariepinus</i>), catfish (<i>Ictalurus spp.</i>), black bullhead (<i>Ameiurus melas</i>), channel catfish (<i>Ictalurus punctatus</i>), pangas catfish (<i>Pangasius pangasius</i>), pike perch (<i>Sander lucioperca</i>), wels catfish (<i>Silurus glanis</i>), Atlantic halibut (<i>Hippoglossus hippoglossus</i>), flounder (<i>Platichthys flesus</i>), Atlantic cod (<i>Gadus morhua</i>), haddock (<i>Melanogrammus aeglefinus</i>), noble crayfish (<i>Astacus astacus</i>), signal crayfish (<i>Pacifastacus leniusculus</i>), redswamp crayfish (<i>Procambarus clarkii</i>)
Infectious Salmon Anaemia	ISA	C+D+E	*		Declared Disease-Free	Rainbow trout (<i>Oncorhynchus mykiss</i>), Atlantic salmon (<i>Salmo salar</i>), brown and sea trout (<i>Salmo trutta</i>)	None

Disease Name	Acronym	Disease Category	Legislation		Ireland's Health Status	Susceptible Species	Vector Species
			Listed Disease	National Measures			
Koi Herpes Virus disease*	KHV	E + National Measures	*	*	Declared Disease-Free	Common carp and koi carp (<i>Cyprinus carpio</i>)	Goldfish (<i>Carassius auratus</i>), grass carp (<i>Ctenopharyngodon idella</i>)
Spring Viraemia of Carp	SVC	National Measures		*	Declared Disease-Free	Bighead carp (<i>Aristichthys nobilis</i>), goldfish (<i>Carassius auratus</i>), crucian carp (<i>Carassius carassius</i>), grass carp (<i>Ctenopharyngodon idellus</i>), common carp and koi carp (<i>Cyprinus carpio</i>), silver carp (<i>Hypophthalmichthys molitrix</i>), sheatfish (<i>Silurus glanis</i>), tench (<i>Tinca tinca</i>), orfe (<i>Leuciscus idus</i>)	Not laid down in legislation.
Bacterial Kidney Disease	BKD	National Measures		*	Declared Disease-Free	All species of Salmonidae	Not laid down in legislation.
Infectious Pancreatic Necrosis	IPN	National Measures		None	No Status	Brook trout (<i>Salvelinus fontinalis</i>), brown trout (<i>Salmo trutta</i>), Atlantic salmon (<i>Salmo salar</i>), (<i>Oncorhynchus</i> spp.) whitefish (<i>Coregonus lavaretus</i>)	Not laid down in legislation.
Infections with <i>Gyrodactylus salaris</i>	GS	National Measures		*	Declared Disease-Free	Atlantic salmon (<i>Salmo salar</i>), rainbow trout (<i>Oncorhynchus mykiss</i>), Arctic char (<i>Salvelinus alpinus</i>), North American brook trout (<i>Salvelinus fontinalis</i>), grayling (<i>Thymallus thymallus</i>), North American lake trout (<i>Salvelinus namaycush</i>), brown trout (<i>Salmo trutta</i>) and any species which has been in contact with these species	Not laid down in legislation.
Infection with Salmonid Alphavirus	SAV	National Measures		None	No Status	Atlantic salmon (<i>Salmo salar</i>), rainbow trout (<i>Oncorhynchus mykiss</i>), brown trout (<i>Salmo trutta</i>)	Not laid down in legislation.

***NOTE:** As Koi Herpes Virus (KHV) has been downgraded to a Category E disease under new EU Animal Health Law, national measures now apply. This means that KHV-free health certification is required **for susceptible species only**.

Disease Name	Disease Category	Legislation		Ireland's Health Status	Susceptible Species	Vector Species
		Listed Disease	National Measures			
<i>Microcytos mackini</i>	A+D+E	*		Declared Disease-Free	Pacific oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>), Olympia flat oyster (<i>Ostrea conchaphila</i>), European flat oyster (<i>Ostrea edulis</i>)	None
<i>Perkinsus marinus</i>	A+D+E	*		Declared Disease-Free	Pacific oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>)	European lobster (<i>Homarus gammarus</i>), marine crabs (<i>Brachyura</i> spp.), Yabi crayfish (<i>Cherax destructor</i>), giant river prawn (<i>Macrobrachium rosenbergii</i>), spiny lobsters (<i>Palinurus</i> spp.), swimming crab (<i>Portunus puber</i>), Indopacific swamp crab (<i>Scylla serrata</i>), Indian white prawn (<i>Penaeus indicus</i>), kuruma prawn (<i>Penaeus japonicus</i>), caramote prawn (<i>Penaeus kerathurus</i>), blue shrimp (<i>Penaeus stylirostris</i>), whiteleg shrimp (<i>Penaeus vannamei</i>)
<i>Bonamia exitiosa</i>	C+D+E	*		Disease Never Reported	Australian mud oyster (<i>Ostrea angasi</i>), Chilean flat oyster (<i>Ostrea chilensis</i>), European flat oyster (<i>Ostrea edulis</i>)	Portuguese oyster (<i>Crassostrea angulata</i>), Pacific cupped oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>)
<i>Bonamia ostreae</i>	C+D+E	*		Disease-Free Areas	Australian mud oyster (<i>Ostrea angasi</i>), Chilean flat oyster (<i>Ostrea chilensis</i>), Olympia flat oyster (<i>Ostrea conchaphila</i>), Asian oyster (<i>Ostrea denselammellosa</i>), European flat oyster (<i>Ostrea edulis</i>), Argentinian oyster (<i>Ostrea puelchana</i>)	Common edible cockle (<i>Cerastoderma edule</i>), wedge shell (<i>Donax trunculus</i>), sand gaper (<i>Mya arenaria</i>), northern quahog (<i>Mercenaria mercenaria</i>), Japanese hard clam (<i>Meretrix lusoria</i>), grooved carpet shell (<i>Ruditapes decussatus</i>), Japanese carpet shell (<i>Ruditapes philippinarum</i>), European aurora venus clam (<i>Venerupis aurea</i>), pullet carpet shell (<i>Venerupis pullastra</i>), warty venus (<i>Venus verrucosa</i>), Great Atlantic scallop (<i>Pecten maximus</i>)
<i>Marteilia refringens</i>	C+D+E	*		Declared Disease-Free	Australian mud oyster (<i>Ostrea angasi</i>), Chilean flat oyster (<i>Ostrea chilensis</i>), European flat oyster (<i>Ostrea edulis</i>), Argentinian oyster (<i>Ostrea puelchana</i>)	Common edible cockle (<i>Cerastoderma edule</i>), wedge shell (<i>Donax trunculus</i>), sand gaper (<i>Mya arenaria</i>), northern quahog (<i>Mercenaria mercenaria</i>), Japanese hard clam (<i>Meretrix lusoria</i>), grooved carpet shell (<i>Ruditapes decussatus</i>), Japanese carpet shell (<i>Ruditapes philippinarum</i>), European aurora venus clam (<i>Venerupis aurea</i>), pullet carpet shell (<i>Venerupis pullastra</i>), warty venus (<i>Venus verrucosa</i>)

Disease Name	Disease Category	Legislation		Ireland's Health Status	Susceptible Species	Vector Species
		Listed Disease	National Measures			
Taura syndrome virus	A+D+E	*		Declared Disease-Free	Gulf white shrimp (<i>Penaeus setiferus</i>), Pacific blue shrimp (<i>Penaeus stylirostris</i>), Pacific white shrimp (<i>Penaeus vannamei</i>)	Penshells (<i>Atrina</i> spp.), common whelk (<i>Buccinum undatum</i>), Portuguese oyster (<i>Crassostrea angulata</i>), common edible cockle (<i>Cerastoderma edule</i>), Pacific cupped oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>), wedge shell (<i>Donax trunculus</i>), Ezo abalone (<i>Haliotis discus hannai</i>), tuberculate abalone (<i>Haliotis tuberculata</i>), periwinkles (<i>Littorina littorea</i>), northern quahog (<i>Mercenaria mercenaria</i>), Japanese hard clam (<i>Meretrix lusoria</i>), sand gaper (<i>Mya arenaria</i>), blue mussel (<i>Mytilus edulis</i>), Mediterranean mussel (<i>Mytilus galloprovincialis</i>), octopus (<i>Octopus vulgaris</i>), European flat oyster (<i>Ostrea edulis</i>), Great Atlantic scallop (<i>Pecten maximus</i>), grooved carpet shell (<i>Ruditapes decussatus</i>), Japanese carpet shell (<i>Ruditapes philippinarum</i>), common cuttlefish (<i>Sepia officinalis</i>), stromboid conchs (<i>Strombus</i> spp.), European aurora venus clam (<i>Venerupis aurea</i>), pullet carpet shell (<i>Venerupis pullastra</i>), warty venus (<i>Venus verrucosa</i>), European lobster (<i>Homarus gammarus</i>), marine crabs (<i>Brachyura</i> spp.), Yabi crayfish (<i>Cherax destructor</i>), giant river prawn (<i>Macrobrachium rosenbergii</i>), spiny lobsters (<i>Palinurus</i> spp.), swimming crab (<i>Portunus puber</i>), Indopacific swamp crab (<i>Scylla serrata</i>), Indian white prawn (<i>Penaeus indicus</i>), kuruma prawn (<i>Penaeus japonicus</i>), caramote prawn (<i>Penaeus kerathurus</i>)
Yellowhead virus	A+D+E	*		Declared Disease-Free	Gulf brown shrimp (<i>Penaeus aztecus</i>), Gulf pink shrimp (<i>Penaeus duorarum</i>), kuruma prawn (<i>Penaeus japonicus</i>), black tiger shrimp (<i>Penaeus monodon</i>), Gulf white shrimp (<i>Penaeus setiferus</i>), Pacific blue shrimp (<i>Penaeus stylirostris</i>), Pacific white shrimp (<i>Penaeus vannamei</i>)	Penshells (<i>Atrina</i> spp.), common whelk (<i>Buccinum undatum</i>), Portuguese oyster (<i>Crassostrea angulata</i>), common edible cockle (<i>Cerastoderma edule</i>), Pacific cupped oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>), wedge shell (<i>Donax trunculus</i>), Ezo abalone (<i>Haliotis discus hannai</i>), tuberculate abalone (<i>Haliotis tuberculata</i>), periwinkles (<i>Littorina littorea</i>), northern quahog (<i>Mercenaria mercenaria</i>), Japanese hard clam (<i>Meretrix lusoria</i>), sand gaper (<i>Mya arenaria</i>), blue mussel (<i>Mytilus edulis</i>), Mediterranean mussel (<i>Mytilus galloprovincialis</i>), octopus (<i>Octopus vulgaris</i>), European flat oyster (<i>Ostrea edulis</i>), Great Atlantic scallop (<i>Pecten maximus</i>), grooved carpet shell (<i>Ruditapes decussatus</i>), Japanese carpet shell (<i>Ruditapes philippinarum</i>), common cuttlefish (<i>Sepia officinalis</i>), stromboid conchs (<i>Strombus</i> spp.), European aurora venus clam (<i>Venerupis aurea</i>), pullet carpet shell (<i>Venerupis pullastra</i>), warty venus (<i>Venus verrucosa</i>)
White Spot Disease	C+D+E	*		Disease Never Reported	All decapod crustaceans (order Decapoda)	Penshells (<i>Atrina</i> spp.), common whelk (<i>Buccinum undatum</i>), Portuguese oyster (<i>Crassostrea angulata</i>), common edible cockle (<i>Cerastoderma edule</i>), Pacific cupped oyster (<i>Crassostrea gigas</i>), eastern oyster (<i>Crassostrea virginica</i>), wedge shell (<i>Donax trunculus</i>), Ezo abalone (<i>Haliotis discus hannai</i>), tuberculate abalone (<i>Haliotis tuberculata</i>), periwinkles (<i>Littorina littorea</i>), northern quahog (<i>Mercenaria mercenaria</i>), Japanese hard clam (<i>Meretrix lusoria</i>), sand gaper (<i>Mya arenaria</i>), blue mussel (<i>Mytilus edulis</i>), Mediterranean mussel (<i>Mytilus galloprovincialis</i>), octopus (<i>Octopus vulgaris</i>), European flat oyster (<i>Ostrea edulis</i>), Great Atlantic scallop (<i>Pecten maximus</i>), grooved carpet shell (<i>Ruditapes decussatus</i>), Japanese carpet shell (<i>Ruditapes philippinarum</i>), common cuttlefish (<i>Sepia officinalis</i>), stromboid conchs (<i>Strombus</i> spp.), European aurora venus clam (<i>Venerupis aurea</i>), pullet carpet shell (<i>Venerupis pullastra</i>), warty venus (<i>Venus verrucosa</i>)