

## European Union Disease of Concern

Name of Disease	Species and Groups of Species	Vector Species
Epizootic Haematopoietic Necrosis	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</i> spp.), roach ( <i>Rutilus rutilus</i> ), rudd ( <i>Scardinius erythrophthalmus</i> ), tench ( <i>Tinca tinca</i> )
Viral haemorrhagic septicaemia	Herring ( <i>Clupea</i> spp.), whitefish ( <i>Coregonus</i> spp.), 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</i> spp.) 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</i> spp.), lumpfish ( <i>Cyclopteridae</i> spp.)	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</i> spp.), 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</i> spp.), black bullhead ( <i>Ameiurus melas</i> ),

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		<p>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</i> x <i>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</i> spp.), 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>), sharpsnout 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>)</p>
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<p>Infectious haematopoietic necrosis</p>	<p>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>)</p>	<p>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</i> spp.), 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</i> spp.), 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</p>
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		crayfish ( <i>Procambarus clarkii</i> )
Infection with HPR-deleted infectious salmon anaemia virus	Rainbow trout ( <i>Oncorhynchus mykiss</i> ), Atlantic salmon ( <i>Salmo salar</i> ), brown and sea trout ( <i>Salmo trutta</i> )	
Koi herpes virus disease	Common carp and koi carp ( <i>Cyprinus carpio</i> )	Goldfish ( <i>Carassius auratus</i> ), grass carp ( <i>Ctenopharyngodon idella</i> )
Infection with <i>Mikrocytos mackini</i>	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> )	
Infection with <i>Perkinsus marinus</i>	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> )
Infection with <i>Bonamia exitiosa</i>	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> )
Infection with <i>Bonamia ostreae</i>	Australian mud oyster ( <i>Ostrea angasi</i> ),	Common edible cockle ( <i>Cerastoderma edule</i> ),

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	<p>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>)</p>	<p>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>)</p>
<p>Infection with <i>Marteilia refringens</i></p>	<p>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>)</p>	<p>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>)</p>
<p>Infection with Taura syndrome virus</p>	<p>Gulf white shrimp (<i>Penaeus setiferus</i>),          Pacific blue shrimp (<i>Penaeus stylirostris</i>),          Pacific white shrimp (<i>Penaeus vannamei</i>)</p>	<p>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>),</p>

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		<p>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</p>
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		white prawn ( <i>Penaeus indicus</i> ), kuruma prawn ( <i>Penaeus japonicus</i> ), caramote prawn ( <i>Penaeus kerathurus</i> )
Infection with yellow head virus	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</i>

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		<i>pullastra</i> ), warty venus ( <i>Venus verrucosa</i> )
Infection with white spot syndrome virus	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> )