Annex 22. Item 9.1.1. – Sections 2.2.1. and 2.2.2. of Chapter 2.2.9. ‘Infection with white spot syndrome virus’

Chapter 2.2.9.

infection with white spot syndrome virus

[…]

2.2. Host factors

2.2.1. Susceptible host species

Species that fulfil the criteria for listing as susceptible to infection with WSSV according to Chapter 1.5. of the *Aquatic Animal Health Code* (*Aquatic Code*) are:

|  |  |  |
| --- | --- | --- |
| Family | Scientific name | Common name |
| Astacidae | *Austropotamobius pallipes* | white-clawed crayfish |
|  | *Pacifastacus leniusculus* | signal crayfish |
|  | *Pontastacus leptodactylus* | Danube crayfish |
| Calanidae | *Calanus pacificus californicus* | no common name |
| Cambaridae | *Faxonius limosus* | spinycheek crayfish |
|  | *Procambarus clarkii ~~spp.~~* ~~(all species)~~ | red swamp crawfish ~~N/A~~ |
|  | *Procambarus zonangulus* | no common name |
| Cancridae | *Cancer pagurus* | edible crab |
| Nephropidae | *Homarus gammarus* | European lobster |
|  | *Nephrops norvegicus* | Norway lobster |
| Nereididae | *Dendronereis sp.* | N/A |
| Paguridae | *Pagurus benedicti* | no common name |
| Palaemonidae | *Macrobrachium nipponense* | Oriental river prawn |
|  | *Palaemon carinicauda ~~spp.~~* ~~(all species)~~ | ridgetail prawn ~~N/A~~ |
|  | *Palaemon orientis* | no common name |
|  | *Palaemon ritteri* | barred grass shrimp  |
| Palinuridae | *Panulirus spp.* (all species) | N/A |
| Parastacidae | *Cherax quadricarinatus* | red claw crayfish |
| Penaeidae |  all species | N/A |
| Polybiidae | *Liocarcinus depurator* | blue-leg swimcrab |
|  | *Necora puber* | velvet swimcrab |
| Portunidae | all species | N/A |
| Varunidae | *Eriocheir sinensis* | Chinese mitten crab |

~~Of all the species that have been tested to date, no decapod (order Decapoda) crustacean from marine, brackish or freshwater sources has been reported to be refractory to infection with WSSV (Flegel, 1997; Lightner, 1996; Lo & Kou, 1998; Maeda~~ *~~et al~~*~~., 2000; Stentiford~~ *~~et al~~*~~., 2009).~~

~~[~~**~~Note:~~** ~~an assessment of species that meet the criteria for listing as susceptible to infection with WSSV in accordance with Chapter~~ [~~1.5.~~](https://www.woah.org/en/what-we-do/standards/codes-and-manuals/aquatic-code-online-access/index.php?id=169&L=1&htmfile=chapitre_criteria_species.htm#chapitre_criteria_species) ~~has not yet been completed]~~

2.2.2. Species with incomplete evidence for susceptibility

Species for which there is incomplete evidence to fulfil the criteria for listing as susceptible to infection with WSSV according to Chapter 1.5. of the *Aquatic Code* are:

|  |  |  |
| --- | --- | --- |
| Family | Scientific name | Common name |
| Carcinidae | *Carcinus maenas* | green crab |
| Ergasilidae | *Ergasilus manicatus* | no common name |
| Gecarcinucidae | *Spiralothelphusa hydrodroma* | no common name |
|  | *Vela pulvinata* | no common name |
| Grapsidae | *Metopograpsus sp.* | N/A |
| Macrophthalmidae | *Macrophthalmus (Mareotis) japonicus* | no common name |
| Ocypodidae | *Leptuca pugilator* | Atlantic sand fiddler |
| Palaemonidae | *Macrobrachium idella* | slender river prawn |
|  | *Macrobrachium lamarrei* | Kuncho river prawn |
|  | *~~Macrobrachium nipponense~~* | ~~Oriental river prawn~~ |
|  | *Macrobrachium rosenbergii* | giant river prawn |
|  | *Palaemon adspersus* | Baltic prawn |
| Scyllaridae | *Scyllarus arctus* | lesser slipper lobster |
| Sergestidae | *Acetes sp.* | N/A |
| Sesarmidae | *Sesarma sp.* | N/A |
| Varunidae | *Helice tientsinensis* | N/A |
| Veneridae | *Meretrix lusoria* | Japanese hard clam |

In addition, pathogen-specific positive polymerase chain reaction (PCR) results have been reported in the following species, but no active infection has been demonstrated:

|  |  |  |
| --- | --- | --- |
| Family | Scientific name | Common name |
| Alpheidae | *Alpheus brevicristatus* | teppo snapping shrimp |
|  | *Alpheus digitalis* | forceps snapping shrimp |
|  | *Alpheus japonicus* | Japanese snapping shrimp |
|  | *Alpheus lobidens* | brownbar snapping shrimp |
| Artemiidae | *Artemia salina* | brine shrimp |
|  | *Artemia sp.* | ~~N/A~~ brine shrimp |
|  | *Nitokra sp.* | N/A |
| Astacidae | *Astacus astacus* | noble crayfish |
| Balanidae | *Belanus sp.* | N/A |
| Brachionidae | *Brachionus plicatilis* | no common name |
|  | *Brachionus urceolaris* | no common name |
| Calappidae | *Calappa lophos* | common box crab |
|  | *Calappa philargius* | spectacled box crab |
| Cambaridae | *Faxonius punctimanus* | spothand crayfish |
| Crangonidae | *Crangon affinis* | Japanese sand shrimp |
| Cyclopidae | *Apocyclops royi* | no common name |
| Diogenidae | *Diogenes nitidimanus* | no common name |
| Dorippidae | *Paradorippe granulata* | granulated mask crab |
| Epialtidae | *Doclea muricata* | no common name |
| Eunicidae | *Marphysa gravelyi* | polychaete worm |
| Euphausiidae | *Euphausia pacifica* | Isada krill |
| Galenidae | *Halimede ochtodes* | no common name |
| Grapsidae | *Grapsus albolineatus* | no common name |
|  | *Metopograpsus messor* | no common name |
| Hippolytidae | *Latreutes anoplonyx* | medusa shrimp |
|  | *Latreutes planirostris* | flatnose shrimp |
| Leucosiidae | *Philyra syndactyla* | no common name |
| Lithodidae | *Lithodes maja* | stone king crab |
| Macrophthalmidae | *Macrophthalmus (Macrophthalmus) sulcatus* | no common name |
| Matutidae | *Ashtoret miersii* | no common name |
|  | *Matuta planipes* | flower moon crab |
| Menippidae | *Menippe rumphii* | maroon stone crab |
| Ocypodidae | *Gelasimus vocans* | orange fiddler crab |
|  | *Leptuca panacea* | gulf sand fiddler |
|  | *Leptuca spinicarpa* | spined fiddler |
|  | *Minuca longisignalis* | gulf marsh fiddler |
|  | *Minuca minax* | redjointed fiddler |
|  | *Minuca rapax* | mudflat fiddler |
| Ostreidae | *Magallana gigas* | Pacific oyster |
| Paguridae | *Pagurus angustus* | no common name |
| Palaemonidae | *Palaemon gravieri* | Chinese ditch prawn |
|  | *Palaemon macrodactylus* | migrant prawn |
|  | *Palaemon pandaliformis* | potitinga prawn |
|  | *Palaemon pugio* | daggerblade grass shrimp |
|  | *Palaemon serenus* | no common name |
|  | *Palaemon serrifer* | carpenter prawn |
| Parthenopidae | *Parthenope prensor* | no common name |
| Pasiphaeidae | *Leptochela gracilis* | lesser glass shrimp |
| Sergestidae | *Acetes chinensis* | northern mauxia shrimp |
| Sesarmidae | *Armases cinereum* | squareback marsh crab |
|  | *Circulium rotundatum* | no common name |
| Solenoceridae | *Solenocera crassicornis* | coastal mud shrimp |
| Squillidae | *Squilla mantis* | spottail mantis squillid |
| Thiaridae | *Melanoides tuberculata* | red-rim melania |
| Upogebiidae | *Austinogebia edulis* | no common name |
| Varunidae | *Chhapgarus intermedius* | no common name |
|  | *Cyrtograpsus angulatus* | no common name |
|  | *Helice tridens* | no common name |
|  | *Neohelice granulata* | no common name |
| Xanthidae | *Atergatis integerrimus* | red egg crab |
|  | *Demania splendida* | no common name |
|  | *Liagore rubronaculata* | no common name |

~~All life stages are potentially susceptible, from eggs to broodstock (Lightner, 1996; Venegas~~ *~~et al~~*~~., 1999). WSSV genetic material has been detected in reproductive organs (Lo~~ *~~et al~~*~~., 1997), but susceptibility of the gametes to WSSV infection has not been determined definitively.~~

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