CHAPTER 2.4.2.

**INFECTION WITH *BONAMIA EXITIOSA***

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**2.2. Host factors**

**2.2.1. Susceptible host species**

~~Oyster species~~*~~Ostrea chilensis~~*~~(=~~*~~Tiostrea chilensis~~*~~=~~*~~T. lutaria~~*~~) ([Dinamani et al., 1987](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm" \l "biblio-14" \t "_blank)),~~*~~O. angasi~~*~~(~~[~~Corbeil et al., 2006b~~](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm#biblio-10)~~;~~[~~Hine, 1996~~](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm#biblio-19)~~;~~[~~Hine & Jones, 1994~~](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm#biblio-23)~~),~~*~~O. edulis~~*~~([Abollo et al., 2008](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm" \l "biblio-1" \t "_blank);~~[~~Narcisi et al., 2010~~](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm#chapitre_bonamia_exitiosa.biblio-57)~~) and~~*~~O. stentina~~*~~(~~[~~Hill et al., 2010~~](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm#chapitre_bonamia_exitiosa.biblio-45)~~).~~

Species that fulfil the criteria for listing as susceptible to infection with *Bonamia exitiosa* according to Chapter 1.5. of the *Aquatic Animal Health Code* (*Aquatic Code*) are: Argentinean flat oyster (*Ostrea puelchana*), Australian mud oyster *(Ostrea angasi),* Chilean flat oyster *(Ostrea chilensis),* crusted oyster *(Ostrea equestris),* ~~dwarf oyster~~ *~~(Ostrea stentina)~~,* eastern oyster *(Crassostrea virginica),* European flat oyster *(Ostrea edulis),* Olympia oyster *(Ostrea lurida)* and Suminoe oyster *(Crassostrea ariakensis)*

**2.2.2. ~~Susceptible stages of the host~~ Species with incomplete evidence for susceptibility**

~~In~~*~~O. chilensis~~*~~, recruit-sized oysters (oysters greater than or equal to 58 mm in length) are known to be susceptible ([Dinamani et al., 1987](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm" \l "biblio-14" \t "_blank)). In~~*~~O. edulis~~*~~, the parasite was detected in market-sized (>60 mm) oysters ([Abollo et al., 2008](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm" \l "biblio-1" \t "_blank)). There are no data concerning the other oyster stages, including spat.~~

~~DNA of~~*~~B. exitiosa~~*~~has recently been detected in larvae of flat oysters~~*~~Ostrea edulis~~*~~([Arzul et al., 2011](https://www.oie.int/index.php?id=2439&L=0&htmfile=chapitre_bonamia_exitiosa.htm" \l "chapitre_bonamia_exitiosa.biblio-29" \t "_blank)).~~

Species for which there is incomplete evidence to fulfil the criteria for listing as susceptible to infection with *B. exitiosa* according to Chapter 1.5 of the *Aquatic Code* are: ~~none known~~ dwarf oyster *(Ostrea stentina)*

In addition, pathogen-specific positive polymerase chain reaction (PCR) results have been reported in the following species, but no active infection has been demonstrated: Pacific cupped oyster (*Crassostrea gigas*) and Sydney rock oyster (*Saccostrea glomerata*).

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