



Penaeus monodon

Jumbo tiger prawn, Giant tiger prawn, Blue tiger prawn, Leader prawn

Threat scores

1. Ecological impact

- “P. monodon is a known carrier of Monodon baculovirus (MBV), yellow-head virus (YHV), Infectious hypodermal and hematopoietic necrosis virus (IHHNV), hepatopancreatic parvo-like virus (HPV), baculoviral midgut gland necrosis virus (BMNV), P. monodon - type baculovirus (MBV), lymphoidal parvo-like virus (LPV), and Reo-like virus (RLV) (Lightner et al., 1983, 1985; Lightner, 1993, 1996). These viruses can be transmitted to native wild penaeid shrimp populations, and thus increases the concern if the disease is introduced by releases from culture facilities (Overstreet et al., 1997; JSA, 1997)” (Molnar 2008).



2. Geographic extent

- Native to Asia, small populations occur throughout Gulf Coast states and Hawaii.
- Locally patchy

3. Management difficulty

- No information on management.

Geography and Habitat

1. Origin: SE Asia, Philippines, Australia ([http://cars.er.usgs.gov/posters/Nonindigenous/Nonindigenous Crustaceans/nonindigenous crustaceans.html](http://cars.er.usgs.gov/posters/Nonindigenous/Nonindigenous%20Crustaceans/nonindigenous_crustaceans.html))
2. First introduction: 1988
3. “1988 accidental release of undetermined number at the Waddell Mariculture center, Blufton, S.C. into a stream that terminates in coastal waters” (Molnar 2008).
4. Estuaries/bays, water courses, coastland, intertidal zones
5. Juveniles occupy shallow estuarine waters sporadically entering rivers, adults are usually found in deeper waters.

Invasion Pathways

1. Enclosed Facilities

- Accidental known
- Cause- Accidental release from mariculture facility
- 1988 accidental release of undetermined number at the Waddell Mariculture center, Blufton, S.C. into a stream that terminates in coastal waters (Molnar 2008).

Non native locations

1. 42- Carolinian
2. 43- Northern Gulf of Mexico
3. 70- Floridian
4. 152- Hawaiian Islands

Sources

1. Molnar, Jennifer, et al. 2008. “Assessing the global threat of invasive species to marine biodiversity.” *Frontiers in Ecology and the Environment*. 6 (9), pp. 485-492.
2. <http://conserveonline.org/workspaces/global.invasive.assessment>
3. http://penbase.immunaqua.com/images/Shrimp_Penaeus_monodon.gif