## **Abstract**

We were found 7 genera 17 species of marine Tetraodontid puffers in this study. The main group is *Lagocephalus* and also the dominant species are *Lagocephalus spadiceus* 63.41% and *L. lunaris* 33.7%. Total numbers of *Lagocephalus* are from Thai gulf 82.7% and Andaman Sea 17.3%. Only two species of *Lagocephalus* were used for the commercial sea food processing, while other species are fish meal product. The main foods processing manufacture are in Mahachai and Meklong. The total weight of *Lagocephalus* in food process was 109 tons (whole body fresh fish)/day; fish meat 36.7 tons/day (13,090 tons/year).

Bone and muscle of fishes are different shape and size. Also puffer fishes can be used to identified species. Puffer bones are used to identify genera status clearly. Ventral post-cleithum is flat in Lagocephalus, and rounded in other genera. Lagocephalus brain case are strongly different between species, but they are complexity in Arothron. Muscle mass of puffers are different from other fish groups, but very close in the same group. Lagocephalus spadiceus is a Z shape body mass muscle, L. lunaris is a W shape body mass. Anothor puffer species muscle mass and head muscle were used to identification. Many products of puffer are produce from Lagocephalus muscle mass eg; sweet fish, dry arius, dry slice meat, fresh meat, salmon color fresh meat, fish ball etc. Puffers does not have a red muscle (lateralis superficialis), they have a large dorsal fin and anal fin muscle supports for swimming or movement. Also, they had a cutaneous cover the muscle mass, because of inflation evolution reasons.