

Investigation of Nutritional Values, Sensorial, Flesh Productivity of *Parapenaeus longirostris* between Populations in the Sea of Marmara and in the Northern Aegean Sea

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Abstract : The differences of *Parapenaeus longirostris* caught from The North Aegean Sea and the Marmara Sea on proximate composition, sensorial analysis (for raw and cooked samples), flesh productivity of the samples were investigated. The moisture, protein, lipid, ash, carbohydrate, energy contents of shrimp caught from The North Aegean Sea were 74.92 ± 0.1 , 20.32 ± 0.16 , 2.55 ± 0.1 , 2.13 ± 0.08 , 0.08 , 110.1 kcal/100g, respectively. The moisture, protein, lipid, ash, carbohydrate, energy contents of shrimp caught from Marmara Sea were 76.9 ± 0.02 , 19.06 ± 0.03 , 2.22 ± 0.08 , 1.51 ± 0.04 , 0.33 , 102.77 kcal/100g, respectively. The protein, lipid, ash and energy values of the Northern Aegean Sea shrimp were higher than The Marmara Sea shrimp. On the other hand, The moisture, carbohydrate values of the Northern Aegean Sea shrimp were lower than the other one. Sensorial analysis was done for raw and cooked samples. Among all properties for raw samples, flesh color, shrimp connective tissue, shrimp body parameters were found different each other according to the result of the panel. According to the result of the cooked shrimp samples among all properties, cooked odour, flavours, texture were found to be different from each other, as well. Especially, flavours and textural properties of cooked shrimps of the Northern Aegean Sea were higher than the Marmara Sea shrimp. Flesh productivity of Northern Aegean Sea shrimp was found as 46.42 %, while that of the Marmara Sea shrimp was found as 47.74 %.

Keywords : shrimp, biological differences, proximate value, sensory, *Parapenaeus longirostris*, flesh productivity

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