GROWTH AND FOOD CONVERSION RATE OF HUMPBACK GROPER, *Cromileptes altivalis* (Valenciennes, 1828) JUVENILE CULTURED WITH DIFFERENT TYPE OF FEED

Nipon Sean-in*, Renu Yashiro and Varith Saingsridang

Rayong Coastal Fisheries Research and Development Center

ABSTRACT

Studied on growth and Food Conversion Rate (FCR) of Humpback Grouper, *Cromileptes altivalis* using 3 difference types of feed formulated feed (floating pellet), formulated feed mixed with fresh feed and fresh feed (*Selaroides leptolepis*), each with 4 replications. The experiment was carried out at Rayong Coastal Fisheries Research and Development Center. Fifteen tails were stocked in cement tank separate in 4 compartments each 1x1x0.6 m. tank and fed at satiation level for 110 days. Initial average body weight of each group were 26.39 ± 2.79 g. and average initial total body length were 13.52 ± 1.85 cm, respectively. Results showed the body weight gains were 22.44 ± 5.91, 51.06 ± 4.07 and 48.02 ± 5.35 g. the total body length gain were 2.14 ± 0.58, 4.18 ± 0.22 and 3.94 ± 0.58 cm., absolute growth rates were 0.20 ± 0.0050, 0.46 ± 0.0039 and 0.44 ± 0.0048 g./day. and food conversion rate were 4.98 ± 1.36, 3.77 ± 0.30 and 4.03 ± 0.47, respectively. Body weight gain, total body length gain and absolute growth rate of group fed with formulated feed was significantly difference (P<0.05) with formulated feed mixed with fresh feed and fresh feed only. FCR from using 3 types of feed were not statistically different (P>0.05). The results of this study can concluded that the growth of Humpback Grouper fed with fresh feed and formulated mixed with fresh feed were better than feeding them with formulate feed alone.

Key words: Juvenile Humpback Grouper, *Cromileptes altivalis*, Growth, Food Conversion Rate (FCR)

* Moo.10, Tambol Tapong, Muang district Rayong Province 21000, Thailand Tel. 0-3865-5191 E-mail: rcrc@rayong-fisheries.com