

EFFECTS OF DIETARY FEED TYPES ON THE GROWTH AND REPRODUCTIVE PERFORMANCE OF FOUR-LINE TRUMPETER *Pelates quadrilineatus* (Bloch, 1790) AT FATTENING CULTURE STAGE IN THUA THIEN - HUE PROVINCE

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Summary

The study was conducted to determine the effect of feed types on the growth and reproductive performance of four-line Trumpeter *Pelates quadrilineatus* (Bloch, 1790), an endemic fish species in the lagoon of Thua Thien - Hue. The experiment was designed in complete randomized block, consisting of 3 formulations, 3 replications: 100% fresh food; 50% of fresh food + 50% of commercial feed; and 100% commercial feed. The research contents include: i) Fish body weight and length growth; ii) age structure and body weight of the first matured fish; iii) maturity ratio of male and female; iv) Fullton and Clark fatness; v) Fat Ball; and vi) the ability to accumulate protein and lipids in the muscles at stage IV of their gonad. The results shown that it was possible to replace a half or completely fresh food by commercial feed without negatively affect on the growth of fish. At the same time, commercial feed has affected some breeding parameters of four-line Trumpeter such as increasing maturity ratio (male and female), decreasing the body weight of matured fish, increasing fat Ball coefficient and Fulton and Clark fatness, and increasing carcasses fat accumulation of the pre-propagation fish.

Keywords: *Four-line Trumpeter, Pelates quadrilineatus, Terapons, broodstock fish, Thua Thien - Hue lagoon.*