

EFFECT OF FRESH FEED AND SUPPLEMENTED VITAMIN E ON THE MATURATION, EGG AND LARVAE QUALITY OF POMPANO (*Trachinotus falcatus*) MAINTAINED ON SEA-CAGES

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Summary

Effect of fresh feeds and supplemented vitamin E (α -tocopherol) on the maturation, egg and larvae quality of pompano (*Trachinotus falcatus*) were tested with the broodstock pompano (4.23 – 4.38 kg) in 100 cubic meters HDPE marine cages at Van Phong Bay, Khanh Hoa province. Two experiments were carried out with 04 fresh feed treatments included: CT: 100% fresh fish; CT-M-T: 60% fresh fish, 20% fresh squid and 20% fresh shrimp; CT-M: 60% fresh fish, 40% fresh squid; CT-T: 60% fresh fish, 40% fresh shrimp and 05 supplemented vitamin E (α -tocopherol) treatments included: NT1: 0 mg vitamin E/kg; NT2: 300 mg vitamin E/kg; NT3: 600 mg vitamin E/kg; NT4: 900 mg vitamin E/kg, and NT5: 1200 mg vitamin E/kg feed. The results showed that, at the treatment of CT-M-T (60% fresh fish + 20% fresh squid + 20% fresh shrimp) and the treatment of NT-3 (60% fresh fish + 20% fresh squid + 20% fresh shrimp + 600 mg vitamin E) have improved the maturation rate, the breeding rate, the fecundity rate, the fertilization rate, the hatching rate, the deformation rate and the survival rate of the three days-larvae after hatching of pompano. Therefore, the feed had 60% fresh fish + 20% fresh squid + 20% fresh shrimp + 600 mg vitamin E (α -tocopherol) should be utilised for maintaining culture pompano (*Trachinotus falcatus*) to enhance the production efficiency of this fish in the next time.

Keywords: Pompano, fecundity, maintaining feeds for fish, *Trachinotus falcatus*, vitamin E.