REARING OF BROODSTOCKS AND SEED PRODUCTION OF RED SNAPPER (*Lutjanus argentimaculatus* Forskal)

Twee Chindamaikul Kowit Kaoeian Chatchai Playlahan
Phangnga Coastal Fisheries Research and Development Center 164 M. 9
Thaimuang, Thaimuang District, Phangnga 82120, Thailand

ABSTRACT

The rearing of broodstocks of the red snapper (*Lutjanus argentimaculatus* Forskal) were done in the 150s ton around concrete tank. There were 54 fish, 5 – 6 years old and 5 – 7 kg/body weight. The broodstocks were feeding with trash fish mixed with vitamins (Vit.E 0.2515 + Vit.C 0.2515 g/capsule). After breeding and the female spawning in the concrete tank, the eggs were collected with the net and transferred into 1 ton fiberglass tanks. The eggs of the red snapper were pelagic, diameter 0.80 mm. and will be grow out hatching about 16 – 18 hrs. at temperature were 28 – 30 ⁰C. The total length a newly hatched larvae was 1.86 mm. There were 560,000 – 868,000 eggs in one spawning The hatching rate was 74.28 – 92.75 % and 81.55 – 92.39 % was normal larvae.

Thereafter, the larvae were transferred to the 20 ton concrete tank, 5 experimented. The 3 – 15 days – old larvae were fed only rotifer in density of 5 – 10 inds./ml, the larvae 16 – 30 days – old larvae with rotifer 10 – 15 inds. /ml + the artemia 2 – 3 inds. /ml and the larvae more than 31 day with only the meal trash fish. The juvenile of the red snapper after more nursed 30 day, 14,194; 14,240; 15,670; 15,350 and 13,221 respectively. The parameter of the seawater of the temperature, salinity, pH, alkalinity, nitrite and total ammonia were, 27.50 – 32.50 ⁰C, 26 – 32 ppt., 8.0 – 8.5, 120 – 135 mg / L., 0.335 – 0.655 N – mg /L. and 0.041 – 0.062 N – mg / L.

Keyword: red snapper (*Lutjanus argentimaculatus* Forskal), hatching, nursing