

A MODEL OF TECHNOLOGY TRANSFER ON SEED PRODUCTION OF STRIPED CATFISH (*Pangasianodon hypophthalmus*) IN THE MEKONG DELTA

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INTRODUCTION

Striped catfish (*Pangasianodon hypophthalmus*) is increasingly important cultured species in the Vietnam for export. Since first success in seed production of this fish in 1995, College of aquaculture and Fisheries, Cantho University has been always improving the technology of breeding as well as methods for transferring technology to farmers and companies for development of the industry in the region.

METHODS OF TRANSFERING TECHNOLOGY

- **Partners:** Private or Joint Stock Companies
- **Steps:** (i) Survey location, (ii) Formulation of and agreement on project proposal, (iii) Implementing the project, (iv) Evaluation
- **Basic regulations:** Induced spawning of fish at least 3 batches with a total of 8-10 pairs of broodstock; results on spawning, egg incubation and larval rearing must meet the indices in the procedure; working duration is within 2-6 months.

BREEDING PROCEDURES AND TECHNICAL INDICES

Gonado checking and induced breeding (4.000 – 5.000 UI HCG /kg fish)



Stripping eggs after final injection 12 – 16 hrs. Average fecundity 100,000 egg/kg of female; spawning rate 85 - 90%; Fertilized rate 75 - 85%.



Disposing of sticky of eggs and incubating in Jar system. Egg hatching after 22 – 24 hrs. Hatching rate 75 – 90 %; survival of fry of 30 hrs post hatching 85 - 95%.



Nursing in earthen pond for 45 days. Survival rate 18 - 25%



TECHNOLOGY TRANSFER TO DIFFERENT COMPANIES



Caseamex company – Can Tho



Viet Long company – Can Tho



Kigimex company – Kien giang



Thai Tuan company – Soc Trang



CONCLUSIONS

Through active and continuous research and dynamic activities for transfer of technology on seed production of Catfish, College of Aquaculture and Fisheries – Can Tho University have been contributing significantly to the development of catfish culture industry in the Mekong Delta, particularly and aquaculture in Vietnam, generally.

Parameters	Viet Long	Thai Tuan	Caseamex	Kigimex
Spawning rate (%)	94.7	95.8	94.5	84.5
Gonado-somatic index	8.6	7.1	7.2	7.2
Fecundity (egg/kg)	112,155 ± 12,119	105,003 ± 5,357	105,782 ± 5,907	108,475 ± 11,210
Fertilized rate (%)	78 ± 4	78,3 ± 2,5	84 ± 7,2	74 ± 3,6
Number of fertilized eggs	6,124,912 ± 3,176,370	6,952,840 ± 1,326,197	6,781,952 ± 2,030,909	17,343,763 ± 3,964
Hatching rate (%)	77,3 ± 5,7	74,7 ± 2,5	83,4 ± 4,9	76 ± 5,9
Quantity of larvae	14,488,890 ± 2,788,141	15,630,864 ± 1,154,600	16,930,716 ± 1,441,886	13,181,260 ± 4,962,788