

DEVELOPMENT OF PRACTICAL DIET FOR MATURATION IMPROVEMENT OF PENAEUS MONODON

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Decreasing of prawn broodstocks in natural resources becomes a serious problem of black tiger prawn industry in Thailand. Also, frequently, available spawners show low quality of seed production. Improving quality of broodstock performance or gaining new sources of prawn broodstocks might be a solution to such problem. Feed is one factor to a successful reproductive performance of both wild and domesticated spawners. Natural food like squids, molluscs, crustaceans, and polychaetes are long accepted to be an appropriate broodstock diets. However, live feed availability is unpredictable and sometimes is disease risk. More reliable source of diets for prawn broodstock, therefore, has been developed. Based on nutritive value of natural feeds, especially on polyunsaturated fatty acids, a practical experimental maturation diet was formulated. Results including the ovarian / sperm development of adult prawns received experimental diets will be monitored and compared with those received fresh natural food.