

**Dietary supplementation of milk powder can enhance the gonad development in
African catfish, *Clarias gariepinus***

ABSTRACT

Pellets are most important for growth of aquatic fish and pellets with high in protein can help in every internal development. There are many types of pellets with different protein content, but for this study it focusses on brood stock pellet with content of 28-30 % protein. The study was focus on the brood stock of *C. gariepinus* catfish with observations on the gonads of brood stock. The objective was to identify the effectiveness of pellet for gonad maturity in male and female of *C. gariepinus*. Three tanks were used in the study and each tank was placed 1 male and 2 females. The duration of experiment was 30 days and *C. gariepinus* were fed with commercial pellet, 5% pellet with addition of milk (M5) and 10% pellet with addition of milk (M10). The study showed M5 was more successful than M10 and commercial pellets because of based on the color of the gonad in *C. gariepinus*. From the gonad weight, M5 (45.0 g) have heavier gonads than M10 (43.0 g) and commercial pellets (20.3 g). As a conclusion, pellets with addition of milk can be used in female of *C. gariepinus* for gonad development and artificial breeding.