## GROWTH AND SURVIVAL OF DIPLOID AND TRIPLOID HETEROBRANCHUS BIDORSALIS REARED IN OUTDOOR TANKS AND THEIR AQUACULTIJ~~POTI~I~TIALS

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## ABSTI~~CT

Triploidy was induced in Heterobranchw;' bidorsali:: by subjecting fertilb3d eggs to cold \$hock treatment at \$0c for 40 mi,7!Jtes. D~oloid and triploid juven//es of mean weight: 21,81g and 28.20g/ respectively were stocked into 2 x 2 x 1.2 nl outd,oor concrete tanks. The treatments (nlade up of diplOid and triploid strains) were in triplicates and were fed with a dks':containiNg 45% crude protein. A/l fish were w(3ighed bi-weekly. At three months, triploid H. bidorsalis grew to mean weight of 77.28g compared with 51,50g 'l diploids.' The growth was sigf7ilicantly different (p<0.05). At nine months of age the triplolds (mean weight 860g) were significantly heavier than the diploids (m'0.'l.7weight712g). Triploids had smaller 'gonads with altered histology. Dietary j-~?quiremel7tsshowed that the triplaids convert~d feed efficiently (FCR=1,92) than the diploid (FCR=2.15) and may provide greater profits in commercial catfish culture than diploids.

Keywords: Growth; Survival; Triploidy; Aquaculture potentials.