

✓ Growth Performance and Economic Efficiency of Indian Major Carps under Integrated Fish-Duck Farming in Namsai District

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ABSTRACT

This experiment was intended to evaluate the effect of stocking of ducks on pond productivity and economic efficiency of Indian major Carps. This trial was conducted for 257 days started on June 2017 to October 2018 and evaluated the effect of stocking of ducks along with a control (without ducks) on pond productivity and economic efficiency of Indian major carps in ponds. The khaki Campbell were used for the integrated system. Each pond was stocked with Indian major carps (*Catla catla*, *Labeo rohita*, *Cirrhinus mrigala*) in a ratio of 3:3:4 were stocked at 10000 ha⁻¹. The water quality parameters i.e. pH, dissolved oxygen, alkalinity and nutrient levels of water were higher in integrated pond than control pond (without ducks). Further plankton levels (Phyto and zooplankton) were also significantly higher in integrated pond. Indian major carps in the integrated ponds exhibited better body weight than the control pond. Better growth rate in fishes was contributed to a yield of 2029kg/ha of fish by stocking of ducks in INT pond than the yield 1286 kg/ha observed in the CTL pond.
