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Production Parameters and Economics of Small-Scale Tilapia Cage Aquaculture in the Volta Lake, Ghana


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over 300 g at harvest was significantly lower in mixed-sex (38.3%) compared to all-

male (75.7%) populations. Mortality resulting primarily from poor handling during transport and stocking averaged 70% and was a major determinate of production and profitability. To break even, harvested biomass of fish needed to exceed 15 kg/m³. At 25 kg/m³, small-scale cage aquaculture generated a net income of US\$717 per cage per six months (ROI = 30.2%) on revenues of US\$3,500. Water quality in the area surrounding the cages was not negatively affected by aquaculture at the scale tested (5 tons of feed per six months).

Keywords: freshwater small and medium scale enterprise locally sourced inputs

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