

PROFIT EFFICIENCY OF TILAPIA MONOCULTURE IN TRISHAL UPAZILA OF MYMENSINGH DISTRICT

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Abstract

The present study was undertaken mainly to determine the costs, return and profitability of tilapia fish production and to examine profit efficiency and socio-economic profile of the tilapia farmers and also to identify the problems associated with tilapia production and marketing. For this purpose, 50 tilapia farmers were randomly selected from four unions of Trishal upazila in Mymensingh district. Tabular, statistical and econometric methods were used to analyze the data. With respect to socio-economic characteristics of sampled tilapia fish farmers, evidence showed that most of the tilapia fish farmers were middle aged. It may be noted here that 38.00 percent of tilapia fish farmers fell under 31-40 years age group. As regards the level of literacy, it was found that 10.00 percent farmers were illiterate, 6.00 percent had primary level of education, 48.00 percent had S.S.C. level, 18.00 percent had H.S.C. level and another 18.00 percent were graduate and above. So, most of the farmers had secondary level of literacy. Fish culture was the main occupation of the most of the tilapia fish farmers. Average family size of the farmers was 7 which was greater than the national average. Most of the sampled tilapia farmers annual income level was Tk. 60,001-1,20,000. Average annual income of the tilapia fish farmers was Tk. 1,62,800. The average cultivated farm size of tilapia fish farmers was 2.33 hectare. The findings came up from the study that the average per hectare tilapia production was 8,821 kg and per hectare average total return was Tk. 3,82,224 for the culture period. Average cost of production was Tk. 1,69,650 per hectare. Per hectare average net return, gross margin, farmer's management income and BCR were Tk. 2,12,574; Tk. 2,42,974; Tk. 1,92,941 and 2.25 respectively. So, production of tilapia was profitable. The average net return per Tk. invested was estimated Tk. 1.25. Yield, cost of fingerling, labour cost, feed cost, fertilizers and chemicals cost and culture period included in the profit frontier had a significant influence on profit of tilapia monoculture in the study area. Age of respondents, family size of respondents, annual income of respondents, depth of ponds, age of ponds and colour of water of ponds were some of the determinants of inefficiency. The average profit efficiency was 85% for tilapia fish producers in the study area. Finally, the present study identified some major problems of tilapia fish production and marketing in the study area. High price of inputs, low product price, lack of sufficient fund, lack of marketing facilities were some of the major problems of tilapia fish production and price fluctuation, poor market structure, lack of sufficient consumers, transportation, storage were some of the major problems of tilapia marketing faced by the farmers in the study area.