

COMPARATIVE PROFITABILITY OF BRINJAL, YARD LONG BEAN AND CUCUMBER CULTIVATION IN COMILLA DISTRICT

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ABSTRACT

The present study was undertaken to find out the socio-economic characteristics, comparative profitability and technical efficiency of brinjal, yard long bean and cucumber production at Chandina thana of Comilla district. Hundred twenty farmers were selected randomly from the vegetable producers of Chandina thana. For analyzing the data, mainly tabular technique of analysis as well as frontier production function analysis was applied. The finding of the study revealed that most of the sample farmers are 20 to 35 years group and they got primary level education. Vegetable- Rice- Vegetable is the major cropping pattern practiced by the sample farmer. Agriculture was the main occupation of the selected farmers at the study area. Based on full cost, the average cost per hectare for brinjal, yard long bean and cucumber farmers were Tk. 45205, Tk. 49995, Tk. 47760 respectively. The cost of yard long bean was high compared to other because it need more labor and material input cost. Human labor constituted the highest cost for all vegetable which was 29.72%, 30.95% and 30.4% of total cost for brinjal, yard long bean and cucumber farmers respectively. On the basis of cash cost, the average cash cost per hectare for brinjal, yard long bean and cucumber farmers were Tk. 24616, Tk. 26950, Tk. 26159 respectively. Among all the vegetable the highest yield per hectare was obtained by cucumber growers (14589 Kg.) followed by brinjal (12651 Kg.) and yard long bean (12128 Kg.) farmers. Per hectare gross return of brinjal was highest than yard long bean and cucumber. Per hectare gross margin of brinjal, yard long bean and cucumber cultivation were Tk. 74093, Tk. 60384 and Tk. 57613 respectively. Gross margin was high in brinjal because it need less cash cost than other vegetable. Per hectare net return of brinjal, yard long bean and cucumber on full cost basis were Tk. 53504, Tk. 37339 and Tk. 36012 respectively that indicates that net return was highest in brinjal and followed by yard long bean and cucumber because the market price is high for brinjal though yield is high in cucumber. Seed cost, fertilizer cost, irrigation cost, pesticide cost, land use cost were significantly increased the production of brinjal. On the other hand, human labor use, power, land use cost, pesticide cost and irrigation cost had significant impact on yard long bean production. In case of cucumber human labor, animal power cost, seed cost and pesticide cost were significant. The mean technical efficiency of brinjal production is 89%, which means that they are making production loss of 11% due to inefficiency factors. Again mean technical efficiency of yard long bean and cucumber production is 86% and 90% respectively, that means farmers are making production loss of 14% and 10% in case of yard long bean and cucumber production, due to inefficiency factors. High price of inputs was the 1st most acute problem according to the rank of problem.