

**Title: Impact of Dolochon Use on Productivity and Profitability of Crop Production  
in Acidic Soil of Sreepur Upazila**

**Major Professor: Prof. Dr. M. Kamruzzaman**

Name of the author: Mir Mehedi Hasan

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**Abstract**

The main purpose of this study was to determine the extent of impact of dolochon in terms of changes in yield of selected crops and increase in annual income and also to explore the relationship between some socio-economic characteristics of the respondents and their total vegetable production. Sreepur upazila of Gazipur district was the locale of the study. Sixty respondents were selected as the sample of the study by using proportionate random sampling technique. Data were collected with the help of an interview schedule. Statistical measures such as mean, number, percentage, standard deviation; and correlation co-efficient were administered to express result. It was found that about 88.33 % of the respondents were benefitted by high level of crop production. Production of T.aman, Boro, Ridge gourd, Snake gourd, Cabbage, Ladies finger and Red amaranth increased significantly and annual income found from the yield of those selected crops also increase significantly in dolochon using farm than dolochon non-using farm. The benefit cost ratio (BCR) of selected crops such as T-aman rice, Boro rice, Ridge Gourd, Snake Gourd, Cabbage, Red amaranth and Ladies finger was found 1.68, 1.60, 2.50, 2.41, 2.68, 2.24 & 2.39 under dolochon using farms whereas dolochon non-using farms it was 1.58, 1.39, 2.12, 2.09, 2.45, 1.98 & 2.14. However, the impact of dolochon application on crop production is certainly a very good practice. The study reflects that, dolochon application can improve the yield efficiency and will help to boost up economic as well as social statuses of the farmers. The study suggest for more attention should be given to this technology and ensure availability of supply according to demand of the farmers.