

Economic Aspects of IPM and Non-IPM Practices of Sugarcane Production in Haryana

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Abstract—Although, IPM approach is creating awareness and interest among the farmers, but its implementation at farm level is not up to the expectation in the backdrop of this, the present study was carried out with objectives to study the input use pattern, to estimate the cost of cultivation, yield and returns obtained in the IPM and Non-IPM farms. Karnal district was purposively selected because it has highest area under sugarcane in the state. Two blocks were selected randomly, i.e., Indri and Karnal and two villages were selected from each block. From each village, a sample of 20 farmers proportionate from their size of land holding, viz., small, medium and large were selected; from each village 10 IPM and 10 Non-IPM growers were selected. Thus, in all, 80 growers were selected randomly. The primary data for the agriculture year 2012-13 were collected by Survey Method by conducting personal interviews of the selected farmers with the help of specially designed schedules. The overall findings reveals that the cost of cultivation for IPM sugarcane (Rs.161830.73/ha) was near about similar to Non-IPM sugarcane (Rs. 164137.97/ha), the per quintal cost of production of IPM sugarcane (Rs. 190.39) was lower as compared to its Non-IPM (Rs. 209.54) counterpart mainly due to higher productivity of IPM (850 q/ha) sugarcane than the Non-IPM (783.33 q/ha). The gross returns from IPM and Non-IPM farm was estimated to Rs. 242316.67 and Rs. 223399.10 per hectare respectively. As indicated by B: C ratio of 1:1.50 for IPM and 1:1.36 for Non-IPM, IPM sugarcane cultivation was economically more viable than the Non-IPM sugarcane. The regression analysis showed that the influence of plant protection chemicals was found significant statistically in IPM farms. This revealed that the IPM components have contributed to the yield significantly.

Keywords: IPM, Non-IPM, Sugarcane, B:C ratio, Regression Analysis.