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ANALYSIS OF FARM INCOME OF BENEFICIARIES AND NON-BENEFICIARIES OF HADEJIA VALLEY IRRIGATION PROJECT IN JIGAWA STATE, NIGERIA

Umar, M. B.

¹Department of Agricultural Economics and Extension, Faculty of Agriculture, Federal University, Gashua, Yobe State

Corresponding Authors' E-mail: mbumar1966@gmail.com Tel.: 0813-547-6484

ABSTRACT

The study examined the impact of Hadejia Valley irrigation project (HVIP) on farm income of beneficiaries in Jigawa State, Nigeria. From the list of 7036 respondents, 207 project beneficiaries and 146 non-beneficiaries were selected using a multi-stage random sampling making a total of 353 as the sample size of the study. Data were obtained using structured questionnaire and analyzed using descriptive statistics and F-test statistics. The results showed that beneficiaries and non-beneficiaries had a mean age of 47 and 45 years, a mean household size of 15 and 21 persons, educational levels of 8 and 7 years and mean off-farm income of \$\frac{\text{\tinc{\text{\tinx}\text{\tinx}\text{\tin}\text{\te}\tint{\texi}\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\tint{\text{\texit{\text{\text{\text{\texi}\text{\texi}\text{\texit{\t years of irrigation farming experience, farm sizes of 3.2 and 2.1 hectares, \(\frac{\text{\text{\text{\text{\text{\text{sizes}}}}}{3.641.00}\) and ₹55, 709.00 spent in hiring labour, farm distances of 3 and 0.9 kilometres, 5 and 3 extension visits per season, a mean of N52,771.00 and N50,205.00, N50,205.68 and N32,422.33 as credit and subsidy, respectively. Membership of cooperative associations indicated a mean of 0.8 and 0.5 for beneficiaries and non-beneficiaries, respectively. In the study area, the average total cost of production per hectare of beneficiaries and non-beneficiaries were +527,179.00 and +363, 191.00, and net farm income of +814,852.00 and +403,753.00realized, respectively. The result of the F-test statistics on cost of production indicated $F_{1,410}$ of 68.3> F at critical value of 3.86 at p = 5. 66E07 and farm income $F_{1,410}$ of 726.3 >F at critical value of 3.86 at p = 8.56E-93 (P<0.05) level of significance. This suggested a significant impact of Hadejia valley irrigation project on farm income of the respondents. The study concludes that the project has had positive impact on the farm income of the project beneficiaries. It therefore, recommends that government should encourage income sources diversification; measures should be taken by the project authority to address inadequate access to extension. The project beneficiaries should form farmers' co-operatives and measures should be taken by the project authorities to promote cost-saving technologies that encourage release of labour from irrigation to reduce the cost of production.

Keywords: Beneficiaries, Farm, Hadejia, Income, Irrigation, Project.