

THE ECONOMIC USE FOR EFFECTIVE FACTORS IN BARLEY CROP IN THE DISTRICT
OF MUQDADIYA .

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ABSTRACT

This study was conducted in the district of Muqdadiya to estimate the production function for barley crop during the season of 2008-2009 . Quantity of seed , chemical fertilizer , hours of human labour , hours of mechanical labour and number of irrigation were represented as an independent variables and the quantity of product was dependent variable . Cobb-Douglas function was estimated with double logarithum formula by uses ordinary least square method (OLS) . It was passed the economic , statistical and econometrics tests ,which all the treatments coefficient were confirmed with economical logic . The coefficient of seeds , chemical fertilizer , and the hours of human labour were significant at 1% level of (t) test . The estimated function was significant at 1% level of (F) test . Independent variables explained 93% of total variation in barley production by adjusted coefficient of determination test(R^2) . Assumption of (OLS) such as Homoskedasticity , Autocorrelation and Multicollinearity were confirmed .The results of analysis indicated that the factors product were used in the second stage of production but not reached the optimum level .The products and net returns of the optimum quantity were exceeded the other quantity which they used in the study at the arithmetic mean.