



## **Double cropping role of food security and sustainable livelihoods in the Rural Guilan Province**

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We aimed to investigate the role of culture in food security and sustainable livelihoods in the Rural' in Guilan province. The purpose of this research is applied research. In terms of statistical operations research study is descriptive – correlational. The statistical population included all family farmers in the province to do the second crop in between 86 to 89, and over 60,000 are exploited. Sample size of 250 was obtained using the formula Fadi  $\rightarrow$  multistage cluster sampling method, the study subjects were used. The data for the analysis of descriptive statistics and statistical analysis was performed using SPSS software. Inferential statistics used in this test method and the Pearson and Spearman correlation coefficients were the factor analysis. Results showed that the expansion of the cultivation and food security among the rural province of a positive and significant relationship exists at 99% level. Also second crop development and sustainable livelihoods significant relationship exists at 95%. Between activities promoting the education and development of the culture of a significant relationship exists at 95%. The results of the factor analysis revealed that four factors, income and employment, the pattern of optimal utilization of agricultural land, improving household consumption patterns, reduce production costs by about 68.51 % of the total variance of the variables of the second culture explained.

**Key Words:** Double cropping, food security, poverty reduction, sustainable livelihoods, Guilan province