

**RESEARCH ARTICLE :**

# Resource use efficiency in wheat production: A comparative analysis

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**SUMMARY :** The present study entitled impact of farm pond's on farmer's economy in Amravati district: a comparative analysis. The study was undertaken to examine the impact of farm ponds on production of wheat crop. For the present study 40 beneficiary and 40 non-beneficiary farmers were selected from Morshi tahsil of Amravati district 5 villages from Morshi tahsil of Amravati district were selected randomly. From each village 8 beneficiary and 8 non-beneficiary farmers were selected randomly. The selected farmers were classified into three category viz., small, medium and large according to their land holding. For calculating resource use efficiency Cobb-Douglas production function was used for estimation of data. Resource use efficiency for wheat production in case of beneficiary farmers, at overall level the regression co-efficient of bullock labour and manure were positively significant at ten per cent level and other remaining variable were found non-significant in wheat production. In case of beneficiary at overall level marginal value of product to the factor cost ratio of bullock labour, manure and crop protection was positive and greater than one that means there was increased the use of these inputs in desirable production of wheat crop. Marginal value of product to the factor cost ratio of human labour, seeds, fertilizer and irrigation were negative and less than one that means there was excess used of these inputs, hence, there should be reduction in use of these inputs for efficient wheat production.

**KEY WORDS:**

Wheat production,  
Farmers, Resource use  
efficiency

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