



Research Article

## Resource productivity and resource use efficiency in custard apple production

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**SUMMARY :** Investigation was carried out during the year 2010-11. 60 custard apple growers were randomly selected from twelve villages of two tehsils of Aurangabad district. Cross sectional data were collected from custard apple growers with the help of pretested schedule by personal interview method. Data were related to custard apple output as well as inputs like area under custard apple garden, economic life of custard apple garden, human labour, bullock labour, manure, fertilizers and plant protection as resources. Cobb Douglas production function was fitted to the data. The results revealed that, regression co-efficient of economic life of custard apple garden was 0.630 followed by area under custard apple garden (0.194), manure (0.021) and bullock labour (0.015) which were positive and significant at 1 per cent level. Regression co-efficient of hired human labour, nitrogen, phosphorous and potash were positive but non-significant. On the contrary, regression coefficient of plant protection was -0.018 which was negative and significant at 1 per cent level. Marginal product of area under custard apple garden was 15.507 quintals followed by that of economic life of custard apple garden (2.804 q), bullock labour (1.465 q) and manure (0.156 q) and so on. MVP to price of ratio with respect to bullock labour was 11.78 followed by potash (4.09), manure (3.20), nitrogen (2.93), phosphorus (2.71), area under custard apple (1.15), hired human labour (1.22) and economic life of custard apple garden (0.89). Hence, preference might be given to bullock labour on priority basis in custard apple production.

**KEY WORDS :**

Custard apple,  
Productivity,  
Intercept, Production

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