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Research Article

Resource productivity and resource use efficiency in maize production

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SUMMARY : Investigation was carried out during the year 2010-11. About 60 maize growers were randomly selected from Kannad and Sillod tehsil of Aurangabad district of Maharashtra. Cross sectional data were collected from maize growers with the help of pretested schedule by personal interview method. Data were related to maize output and inputs like area under maize, hired human labour, bullock labour, machine labour, seed, manure and use of nitrogen, phosphorus, potash and family labour as resources. Cobb Douglas production function was fitted to the data. The results revealed that, regression coefficient of area under maize was (0.279) followed by bullock labour (0.103) and machine labour (0.082) which were positive and highly significant at 1 per cent level. Regression co-efficient of manure (0.162) was positive and significant at 5 per cent level. A regression co-efficient of phosphorus was negative but significant at 1 per cent level. Marginal product of area under maize was 15.776 q followed by bullock labour (0.927 q), machine labour (0.848 q) and so on. MVP to price ratio with respect to bullock labour was 3.26 followed by that of manure (2.88). Hence, preference might be given to increase the use of bullock labour on priority basis in maize production.

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