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Trend and growth performance of sesamum : Area, production and productivity in different agro-climatic regions of Madhya Pradesh

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ABSTRACT : The present study, entitled, "Trend and Growth Performance of Sesamum Area, Production and Productivity in Different Agro-climatic Regions of Madhya Pradesh" was undertaken to find out the trends and growth performance in area, production and productivity of Sesamum. The study was based on secondary time series data collected from 1991-92 to 2007-08. The result of the study had shown the decreasing trend in all the regions with respect to area except Chhattisgarh Plains, Grid Region, Bundelkhand, and Jhabua Hills, whereas, increasing trend was observed in all the regions except Vindhya Plateau, Satpura Plateau, Malwa Plateau and Nimar Plains in case of production. In case of productivity, all the regions have shown an increasing trend. Highest absolute increase in area and production was observed for Bundelkhand (63.233 thousand ha and 27.467 thousand tons respectively) whereas, in case of productivity, it was Chhattisgarh Plains (425.325 kg/ha). In terms of relative increase in area and production, Bundelkhand region have shown highest increase (134.826 and 220.912 per cent, respectively) while in case of productivity, it was Jhabua hills Region (166.667 per cent). Simple Growth Rate in area and production was observed as highest in Grid Region (7.432 and 10.772 per cent, respectively) whereas, in case of productivity, it was Jhabua Hills (13.75 per cent). Highest declining Simple Growth Rate in area and production was observed for Central Narmada Valley (–16.951 and –14.267 per cent, respectively). Compound Growth Rate in area was observed as highest in Bundelkhand (4.727 per cent) whereas, in production and productivity, it was Chhattisgarh Plains (9.434 and 7.23 per cent, respectively). Highest declining Compound Growth Rate in area and production was observed for Central Narmada Valley (–17.004 and –13.917 per cent, respectively).

Key Words: Trend, area, production, productivity, absolute change, relative change, simple growth rate, compound growth rate, agro-climatic regions, Sesamum, M.P.