

## INFLUENCE OF VARIABLES ON YIELD OF SOYBEAN IN RAISEN DISTRICT OF MADHYA PRADESH

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### ABSTRACT

An attempt has been made to identify the variables those having significant correlation with soybean yield. The values of partial regression coefficients (b-values) were worked out and it is observed that soybean yield was negatively and significantly influenced by irrigated oilseed area in Bareli tehsil in Raisen district of Madhya Pradesh. The multiple R<sup>2</sup> (Coefficient of determination) value had been found 49.99 per cent at district level to imply all variables put together only 49.99 per cent of total had been rendered explicable. The multiple R<sup>2</sup> value at district level indication that some other variables like rainfall during crop season, fertilizer consumption etc also had substantial effect on the yield of soybean. Studies further indicate that 0.174 to 7.79 per cent variation in yield contributed by all three variables included in the study in regards to tehsils. Thus, on the basis of above finding it can be concluded that none of the studied variables emerged undisputedly as the most important factor in determine yield variation because none of these had influence on soybean yield at district level.

**KEYWORDS:** Influence, Madhya Pradesh, Soybean, Variables and Yield