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Effects of area, yield and their interactions on **R**esearch **P**aper change in production of major crops in Rajasthan Jitendra Suman, Hari Singh, Devendra Kumar Verma and Sarfraz Ahmad See end of the paper for ABSTRACT: This paper tries to identify these factors by undertaking a decomposition analysis with authors' affiliations reference to area, yield and combined of both area as well as yield. The here there are two situations Correspondence to : for change in production. Firstly the change in production is positive *i.e.* if average production of Jitendra Suman terminal years are more than average production of initial years Secondly the change in production is Department of Agricultural negative *i.e.* if average production of terminal years are less than average production of initial. In both Economics, S.K.N College of Agriculture, S.K.N. the cases the first expression is the area effect, the second expression gives the yield effect and third Agriculture University, expression gives the interaction effect of area with yield. The cumulative effect of area, yield and Jobner (Rajasthan) India interaction will be hundred in percentage term. Initial and terminal triennial average of area production and yield of selected crops of Rajasthan are divided into two periods 1995-96 to 2004-05 first period 2005-06 to 2014-15 second period and calculated area effect, yield effect and interaction effect through decomposition model. It could be observed the change in production has been positive for crops like Bajra, maize, barley, moth, urad, moong, groundnut, soybean, sesame, rapeseed and mustard, castor, coriander, fenugreek, cumin, garlic and chilli over the time. On other hand the change in production over time was found negative in paddy, wheat, gram, arhar, linseed, cotton, sugarcane and guar. KEY WORDS : Area, Production, Yield, Interaction, Decomposition How To CITE THIS PAPER: Suman, Jitendra, Singh, Hari, Verma, Devendra Kumar and Ahmad, Sarfraz (2019). Paper History : Effects of area, yield and their interactions on change in production of major crops in Rajasthan. Internat. Res. J. **Received** : 21.06.2019; Agric. Eco. & Stat., 10 (2): 246-251, DOI: 10.15740/HAS/IRJAES/10.2/246-251. Copyright@ 2019: Hind **Revised** : 09.07.2019; Accepted : 10.08.2019 Agri-Horticultural Society.