



Research Article

Study the adoption and area expansion of intervent technology through OFT and VT under Mandar block of Ranchi district

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SUMMARY : Effect on adoption and area expansion of intervened technologies study in five village of Karge Panchyat of Mandar Block of Ranchi District, Jharkhand result shows that the demonstrating and experimenting farmers had adopted relatively a large number of technologies compared to participating farmers. Majority of the demonstrating farmers (87%), experimenting farmers (83%) and participating farmers (84%) had adoption index scores between 26 to 75 per cent. No significant differences among three categories of respondents were found with respect to their adoption scores. Out of six technologies demonstrated, four were found to be adopted by above 50 per cent of the respondents except two *i.e.* soil application of bleaching powder and lindane dust and use of wilt resistant brinjal varieties Swarnshree. However, the two technologies were found to be adopted by above 50 per cent of the experimenting farmers. The co-efficient of correlation between caste and family size with adoption score was found to be positive but non-significant with respect to the three categories of respondents. As an effect of adoption of assessed *i.e.* verified technologies under well-endowed production systems, area under tomato, cauliflower and capsicum increased to an extent of 1466.66, 2350 and 650 per cent, respectively among demonstrating farmers, whereas, 1340, 866 and 933 per cent among participating farmers, respectively. Similarly under small production systems due to effects of adoption of demonstrated refined technologies, area expansion under tomato, brinjal and cauliflower was recorded to an extent of 1300, 1200 and 966.66 per cent, respectively among experimenting farmers and 1600, 1066 and 755 per cent among participating farmers. Rate of diffusion of the refined technologies was around 30 per cent in both well-endowed and small production systems. Spread effect was relatively higher (41.85%) in well-endowed production systems compared to the small production systems (33.4%).

KEY WORDS :

Adoption, Area expansion, Intervent technology, OFT, VT

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