Research Article

FARM LEVEL IMPACT OF ZERO TILLAGE IN WHEAT UNDER RICE-WHEAT PRODUCTION SYSTEMS

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Received: February 22, 2018; Revised: February 28, 2018; Accepted: March 02, 2018; Published: March 15, 2018

Abstract- This paper has compared the economics of wheat production with Zero tillage (ZT) and conventional tillage (CT) and assess the adoption pattern, changes in productivity and input use associated with ZT practices. Adoption pattern changes across the villages, districts by adopting ZT technology in rice-wheat production system, cost is decreased and yield is increased significantly and a high return per rupee of cost of ZT obtained, indicating the economic viability of the technology. To analyze the input use/factors influence wheat yield production function approach followed, it shows that late sowing of wheat under ZT practice is associated with decreasing in wheat yield. Hence, extension workers should concentrate on this aspect in their training and demonstration programmes. Technology intervention needs to be complemented with policy reforms (subsidy on inputs and infrastructure) to create an enabling environment for sustainable adoption of this conservation practice.

Key words- Zero tillage, Conventional tillage, production function, Haryana.