

An economic analysis of technology adoption and yield gap of hybrid rice production in Uttarakhand

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ABSTRACT : This study undertaken in U.S. Nagar district of Uttarakhand was selected purposively on the basis of highest acreage under hybrid rice during the year 2008-09. The study has used the primary data collected from 30 farmers using the random sampling. Yield gap was estimated for hybrid rice crop in the study area and their determinants were identified by correlation and regression analysis. The significance of yield gaps was tested using student's t- test. For technology adoption level, a technology adoption index was constructed taking relevant parameters. The study revealed that the level of technology adoption was encouraging in the study area and was positively correlated with size of land holding. The overall average technology adoption index for hybrid rice crop was (63.72%). Level of technology adoption was high in the study area, but farmers were not adopting very high level of technology due to inappropriate use of recommended components. All the factors of yield determinants under study were positively correlated with the yield of hybrid rice.

Key Words: Technology adoption, yield gaps, hybrid rice, regression, correlation.