

## IMPACT ANALYSIS OF WATER DISTRIBUTION ON INCOME AND IRRIGATION PATTERN IN INDI BRANCH CANAL OF UPPER KRISHNA PROJECT

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### ABSTRACT

The study was conducted to know the impact of water distribution on income and irrigation pattern in the Indi branch canal of upper Krishna project command area. The Sample size, comprising of 135 farmers was selected using multi- stage random sampling method. Field level data were elicited for the year 2013-14 through personal interview method. For analyzing the data, tabular analysis, Garrett's ranking and Gini ratio technique were employed. The average income per farm from agriculture was more in the middle reach (Rs. 1, 33, 680.00). In the head reach, 80 per cent of farmers irrigated the field during daytime, and in tail reach 33.33 per cent irrigated night time. Similarly, in the head reach of the canal, 86.70 per cent of the farmers are getting adequate water for irrigation. In the tail reach, 48.89 per cent of sample respondents agreed for wastage of water through canals and 91.10 per cent of farmers in head reach, exclusively dependent on canal water.

**KEYWORDS:** Head Reach, Middle Reach, Tail Reach, Gini Ratio