



RESEARCH ARTICLE :

Survey of micro irrigation in selected districts of north Karnataka

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SUMMARY : The survey of micro irrigation status in selected districts of north Karnataka different talukas was conducted during the period from 2010-11 to 2015-16. In the study area has sever water scarcity problems due to various reasons, such as flood (conventional) method of irrigation, more seepage and percolation losses due to poor lining of canals systems and in other hand it leads to continuously increasing the demand of water for different purposes. The area coverage through irrigation was less and also potential availability of water for irrigation for future use has been declining at a faster rate due to the flood method of irrigation and thereby decreasing the irrigation efficiencies. The available estimates indicate that water use efficiency under flood irrigation method was only about 35 to 40 per cent because of huge conveyance and distribution losses and water use efficiency in case of micro irrigation method was 85 to 90 per cent. The area under flood and drip irrigation method in study area were 175485 ha and 16511 ha during the period 2015-16 and the application of water through drip irrigation has been increased from 3122.64 ha to 16511 ha during the study period. The save of water and energy from drip irrigation as compare to flood irrigation method were 12271676.52 lakh litres and 319604222.5 kWh, respectively, therefore, from the study it was concluded that micro irrigation plays a paramount role in optimum use of inputs, increase of water productivity, increase of crop yield and enhancing cropping intensity.

KEY WORDS :

Micro irrigation

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