

FIELD EVALUATION OF ONION CROP UNDER TRICKLE IRRIGATION SYSTEM IN U.P.

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ABSTRACT : There are various methods of irrigation which are adopted for the cultivation of vegetables, cereals, fruits and fodder cultivation in India, such as surface irrigation (furrow, check basin, border irrigation, sprinkler & drip irrigation). The overall method of irrigation such as drip (trickle), sprinkler and micro jet. Due to increasing water scarcity and more demand of irrigation as well as industrial and domestic purpose in our country. India has no option except to adopt the different modern irrigation techniques to feed its growing population. On the basis of performance evaluation of onion cultivation under trickle irrigation method with the comparison of traditional method of irrigation, the yield of onion crop was higher under trickle method rather than traditional method and 70% of water saving was found under trickle method, size and test weight of onion bulb, plant growth and benefit cost ratio (BCR) was also more in drip method of irrigation with respect to border method of irrigation.

Key Words : Evaporation, drip capacity, water consumption, BCR, gross return.