

Forcing and protected cultivation of vegetable crops in rivers beds under climate change

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ABSTRACT

The field study was laid out during 2008 and 2009 in the catchments area of Ganga river at Kannauj and left bank of Ganga river at Unnao, left bank of Yamuna river at Kanpur, right bank of Betawa river at Hamirpur and Lalitpur, left bank of Betawa river at Jhansi, right bank of Yamuna river at Kalpi, Isan river at Mainpuri, Chambal river at Agra, Kein river at Banda and Mandakini at Chitrakoot. The main objective of the study was to utilize the exposed rivers beds from October to on set of monsoon for cultivation of vegetables with recharged ground water of rivers beds. The fruits of vegetables reaped by 328 q/ha of pumpkin, 238 q/ha of bottle gourd, 142 q/ha of sponge gourd, 205 q/ha of bitter melon, 105 q/ha of long melon, 190 q/ha of snap melon, 330 q/ha of water melon and 245 q/ha of muskmelon. Potato gave tubers yield by 295 q/ha, while tomato fruits harvested as 310 q/ha. The green foliage and immature bulbs of onion reaped by 147q/ha for green vegetable. The fresh roots of radish harvested as 267 q/ha.

Key words : Catchments, Forcing Vegetables, river bed, Lug-tug, Main assembly, Trench vegetables