553. **Tiwari, A.K., Bhushan, L.S. and Om Prakash. 1987.** Optimum border size for surface irrigation in reclaimed ravine land. Abst. No. 16, National Symp. on "Land and Water Management in Ravines", CSWCRTI, Research Centre, Agra, March 19-22, 1987: 14.

With a view to suggest a suitable border length and width for efficient irrigation from a water source on sandy loam soil, a study was initiated at Agra during 1983-84. Border sizes of 15, 30 and 60 m length and 2, 4 and 6 m width were tested under low point discharge of 7 lit/sec with the test crop of wheat. Hydraulic study revealed that opportunity time was more uniform for width of 4 m and length of 60 m. Water use efficiency was observed to be increasing with border length, with the highest water use efficiency for 60 x 4 m layout, which recorded the maximum crop yield too. An irrigation layout of border length of 60 m and width 4 m seems to be more efficient for sandy loam soil with a low discharge of 7 lit/sec, when the opportunity time varies from 24 to 27 minutes.