

99. Ram Babu, Agarwal, M.C. and Puri, D.N. 1981. Size and shape of plots and blocks for field experiments in natural grasslands in Agra ravines. *Indian J. agric. Sci.* 50(4):271-275.

In a 2-year uniformity trial on natural grasslands of ravine area of Agra region, the coefficient of variation in yield decreased with an increase in plot size in all the locations. The equation  $y = ax^b$  gave a good fit to the relationship between coefficient of variation and plot size in ravine top and bottom. The fit was not good for ravine slope. For a fixed size of plot, the shape of plot did not indicate any consistent effect on CV. But plots elongated perpendicular to the slope on ravine top and bottom, along the slope on ravine top and bottom, and along the slope on ravine slope, showed smaller CV than compact ones. Plots of 12-24 m<sup>2</sup> appeared optimum. Block efficiency decreased with an increase in block size. The relationship  $y = ax^b$  between coefficient of variation (y) gave a good fit except in ravine slope.