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A uniformity trial on natural grasslands of Shiwalik hills was conducted for two consecutive years and the average yield data was analysed. The coefficient of variation decreased with the increase in plot size upto 12 m<sup>2</sup>. The equation  $y = a x^{-b}$  suggested by Smith, gave a good fit to the relationship between coefficient of variation (y) and plot sizes (x). Plot shape had no consistent effect on coefficient of variation. However, compact plots had shown smaller coefficient of variation. The number of