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The American Square Designs (LSDs) versus Complete Randomized and Randomized Complete Block Designs (RCBDs) for various sizes and matural grasslands of Shiwalik hills was worked out. The relative efficiency 4x4, 5x5 and 6x6 LSD for different plot sizes and shapes was compared with RCBD, when rows are treated as blocks (ignoring column) and when columns as blocks (ignoring rows). The number of units required in CRD and RCBD as blocks or columns as blocks for obtaining the relative efficiency equivalent to 6x6 LSD were also evaluated. Thus, LSD was found more efficient than RCBD for experimentation with natural grasslands in this region.