一种变形拉丁方设计

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为了在两个方向上控制田间试验的地力差异,而又不过分限制处理数m的取值,本文提出了一种变形拉丁方 设计的试验方法。该种设计是在随机区组设计的基础上,将n个区组做为行区组看待。再将这n个行区组的m个小区 分成n个段作为列区组来布置试验,并使所有处理在每个行区组和每个列区组中都只出现一次。在方差分析中,将行 区组和列区组的方差从机误方差中分离出来,减少了随机误差,使试验效率得到提高。

关键词 田间试验分段设计 分类号

A Variant of Latin Square Design

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Abstract In order to control the difference of soil fertility in two directions and at the sametime to have enough number of t reatments, a variant of Latin square design was develo-ped. This method was designed on the basis of randomized block desi ▶本文作者相关文章 gn. The nblocks were considered as row blocks. Then the n blocks were divided into nsegments, i.e. column blocks Thus, all . treatments appear one and only one time in ev-ery block of rows and column. In analysis of variance of this design, the vari ances ofrow and column blocks can be isolated from the error variance. Thus, the random er-ror was reduced and the effecie ncy improved.

Key words Segmented experiment design

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