

## 小麦数量性状遗传的初步研究

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**摘要** 以7个小麦品种采用不完整双列杂交(3×4)配成12个杂交组合,对F<sub>2</sub>杂种的株高等11个数量性状估算了遗传变异组成、平均显性度和遗传力等参数。试验表明,F<sub>2</sub>各数量性状的遗传变异组成均以基因的加性效应为主。各性状组合间广义遗传力较高,狭义遗传力只有单株穗数、主穗粒数和千粒重较低。遗传变异系数以株、穗的粒数、粒重等性状较大。根据试验结果,对F<sub>2</sub>组合和单株的选择问题作了讨论。

**关键词**

分类号

## A Preliminary Studies on the Heredity of Characters of Wheat

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### Abstract

From an incomplete dialled design on 11 quantitative characters of the F<sub>2</sub> population of 12 wheat crosses, we had estimated the genetic variance components, degree of dominance and heritability. Our investigation showed that the genetic variance of the characters in F<sub>2</sub> hybrids was controlled mainly by gene additive effect. The broad-sense heritability of the characters between crosses was higher, but the narrow-sense heritability shown in the spike numbers per plant, kernel number of primary spike and weight per 1000 grains was lower. The coefficients of variation were higher for the kernel numbers and kernel weight per plant and spike.

The selection of the cross and per plant for character in F<sub>2</sub> hybrids was discussed on the basis of the experimental results.

### Key words

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### 扩展功能

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