

陆地棉丰产性状的遗传力和遗传进度的估测

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摘要 早熟、丰产、优质、抗病是当前我国棉花育种的主要目标。为了加速我国棉花育种工作的发展，多快好省地培育棉花新品种，必需以阶级斗争为纲，坚持党的基本路线，在华主席和党中央的统一领导下，充分发动群众，研究棉花的早熟、丰产、优质、抗病等项经济性状的遗传规律，把育种工作置于更有科学预见性的基础之上。关于陆地棉的纤维长度、早熟性的遗传力，我们曾做过一些初步估计[1, 2]，本文拟对陆地棉丰产性状的遗传力和遗传进度再进行一些初步估测。

关键词

分类号

THE ESTIMATIONS OF HERITABILITY AND GENETIC ADVANCE OF CHARACTERS CONCERNING PRODUCTIVITY OF UPLAND COTTON

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Abstract

Heritability (h^2) and Genetic advance (OG) of lint cotton yields per plant, number of bolls per plant, average boll weight, lint percentage, lint index and seed index of upland cotton were estimated by various methods through the years 1964, 1965 and 1975. The results show that number of bolls per plant, lint percentage and lint index have median heritability with h^2 ranges from 40% to 80%, yields per plant and average boll weight have low to median heritability with h^2 ranges from 14% to 80%, while seed index gives no consistent result of h^2 estimated from different methods. Under 5% selection rate, Genetic advance is higher for number of bolls per plant, average boll weight, and seed index, lower for lint index. As to the Genetic advance of yields per plant, lint percentage, different results were obtained from different methods.

Key words

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