

生物技术·植物遗传育种

## 栽培密度对直立株型杂交稻的分蘖、叶面积指数及产量的影响\*

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**摘要** 在不同栽培密度条件下,对3个直立株型杂交稻组合的分蘖力、叶面积指数及产量性状进行了研究。结果表明:随着栽培密度的降低,各个组合的分蘖力提高,叶面积指数在生育前中期降低;在合理的栽培密度下,产量及其构成因素差异不显著;不同密度下3个组合的理论产量与穗实粒数呈显著正相关;3个组合均以16.5cm×26.4cm, 13.3cm×26.4cm两个密度栽培较好。

**关键词** [栽培密度](#) [直立株型杂交稻](#) [分蘖力](#) [叶面积指数](#) [产量](#)

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## Effect of Plant Density on Tiller Capability and Leaf Area Index and Yield of Erect Hybrid Rice

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### Abstract

Tiller capability, leaf area index, yield and yield characters of three erect hybrid varieties were studied. The results indicated that with the decrease of plant density, the numbers of tillers increased, and leaf area index of three erect hybrid rice declined in prophase and metaphase. Significant differences were not found in theoretical yield and yield characters under reasonable density. Positive significant correlations were found between theoretic yield and filled spikelets, seed setting rate. Appropriate plant density of three erect hybrid varieties is 13.3cm×26.4cm or 13.3cm×26.4cm.

**Key words** [plant density](#) [hybrid rice of erect plant type](#) [tiller capability](#) [leaf area index](#) [yield](#)

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