

研究论文

# 杂交早稻需肥特性和施肥技术研究

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**摘要** 本文指出:(1)杂交稻亩产千斤,需要的氮磷钾营养均比常规稻多。由幼穗分化到孕穗期,是杂交水稻一生中吸收养分最多的时期,占总量的50%以上,抽穗后吸收养分已达90%,此后只有谷穗尚需吸收氮和磷,茎秆吸收钾,其它部位均达顶点。生育后期物质转移明显。(2)肥田亩施纯氮15斤,亩产可接近千斤,随着用量增加,增产效益明显下降。相关分析表明,植株吸氮总量与稻谷产量无明显正相关,但吸氮高峰期植株含氮和成熟期稻谷含氮,与稻谷产量均有显著的正相关,而茎秆含氮与不实粒有极显著的正相关。(3)生育中期重施氮肥,在高氮条件下,后期群体恶化,退化颖花大量增加,产量降低,但在低氮条件下,中期重施氮肥,可获高产,能明显提高肥料利用率和增产效益。前期重施氮肥,在高氮条件下,造成前期过疯,比中后期过疯危害较轻,但肥料的增产效益低。中低氮条件下,前促产量也并非最高。多次匀施,在中氮条件下,产量最高。

关键词

分类号

## STUDIES ON THE CHARACTERISTICS OF FERTILIZER REQUIREMENT OF HYBRID RICE AND THE APPLICATION TECHNIQUE

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**Abstract** The characteristics of fertilizer requirement of hybrid rice and the proper use of fertilizer application technique were studied based on the physiological indices of NPK in the different parts of plant during different growing stages under different fertilizer treatment. It was indicated that more nutrients of NPK were needed by a hybrid rice with a yielding of 1000 jin/mu as compared with the common rice cv. The maximum absorbing of NPK of plants was in the intermediate growth stage, consisting of 50% of the total...

### Key words

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