

农学—研究报告

不同施肥期和施肥量对津川1号产量和食味品质的影响

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摘要:

以天津地区主栽的优质粳型水稻品种‘津川1号’为试验材料,研究施肥期和施氮量对水稻的产量、稻谷的常规品质、米粉的RVA特征值和米饭食味的影响。结果表明,不同施肥期和施氮量对产量,糙米率,垩白率,直链淀粉含量,RVA的峰值黏度、热浆黏度和消减值,米饭食味值各种指标上均有显著差异。在低氮处理和高氮处理中,时期一与其他两个时期相比,产量更高,稻米的碾磨品质、米粉的直链淀粉和蛋白质含量、RVA谱的特征值、米饭的外观和食味等理化指标都更为优异。因此,就‘津川1号’这一品种而言,水稻进入抽穗期应尽早施入穗肥。施肥时期一的产量最高,食味品质最好。

关键词: 施肥期

Effect of Fertilize Date and Nitrogen Fertilizer Quantity on Yield and Eating Quality Properties of Rice ‘Jinchuan 1’

Abstract:

Tianjin region of high-quality japonica Cultivated rice varieties ‘Jinchuan 1’ as the experimental material to study the different fertilization date and nitrogen fertilizer quantity on the yield of rice, regular rice quality, the unpolished rice ratio and rice RVA characteristics of taste. The results showed that fertilization date and nitrogen fertilizer quantity on yield of unpolished rice ratio, chalky ratio, amylose content, RVA peak viscosity, hot pose viscosity and setback, palatability value of indicators were significantly different in the low N treatment and high N treatment, the first fertilization date compared with the other two, higher yields and milling quality of rice, rice amylose and protein, RVA spectrum eigenvalue, the appearance and taste of rice and other physical and chemical indicators were more excellent. Therefore, this species ‘Jinchuan 1’, the rice entered the heading stage panicle was applied as soon as possible. The best eating quality and the highest yield of rice were obtained in the first fertilization date.

Keywords: fertilize date

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