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## 新疆棉区杂交棉高产栽培优化配方施肥技术研究

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### Study on the Technique of Optimum Formula Fertilizer for High-yielding Cultivation of Cotton Hybrid in South Xinjiang

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摘要

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**摘要** 采用“3414”不完全设计方法,研究了新疆杂交棉高产栽培水平下氮磷钾肥料的优化配比效果。结果表明:氮磷钾肥料的主效应对杂交棉皮棉产量的影响顺序为钾肥>磷肥>氮肥;氮磷钾肥料两因素间的交互作用,对杂交棉皮棉产量影响的大小顺序是N×K>P×K>N×P;根据氮磷钾肥料组合寻优结果和杂交棉高产棉田的实践,在南疆种植杂交棉要获得2836~3050 kg·hm<sup>-2</sup>的皮棉产量,需施纯N 262.3~748.5 kg·hm<sup>-2</sup>, P<sub>2</sub>O<sub>5</sub> 14.1~277.0 kg·hm<sup>-2</sup>, K<sub>2</sub>O 43.6~199.8 kg·hm<sup>-2</sup>;最佳经济施肥量分别为:纯N 433.9 kg·hm<sup>-2</sup>, P<sub>2</sub>O<sub>5</sub> 116.5 kg·hm<sup>-2</sup>, K<sub>2</sub>O 103.0 kg·hm<sup>-2</sup>, N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O=1:0.27:0.24。

**关键词:** 杂交棉 氮磷钾肥料 优化配方

**Abstract:** The optimized formulation experiment of N, P, K fertilizers was studied in high-yielding cultivation of cotton hybrids in South Xinjiang by the “3414” incomplete design method. The results showed that the main effects of N, P, K fertilizer on the lint yield were ranked as follows: K>P>N. The effect of the interaction of every two of the three kinds of fertilizer on the lint yield was N×K>P×K>N×P. Based on the results of the optimum combination of three fertilizers and the practice of the high-yield hybrid cultivation, the fertilizer recommendation was made. To acquire the lint yield of 2836~3050 kg·hm<sup>-2</sup> in South Xinjiang, there should be fertilizers application of N 262.3~748.5 kg·hm<sup>-2</sup>, P<sub>2</sub>O<sub>5</sub> 14.1~277.0 kg·hm<sup>-2</sup>, and K<sub>2</sub>O 43.6~199.8 kg·hm<sup>-2</sup>, respectively, and the optimum economic fertilizer rate is N 433.9 kg·hm<sup>-2</sup>, P<sub>2</sub>O<sub>5</sub> 116.5 kg·hm<sup>-2</sup>, and K<sub>2</sub>O 103.0 kg·hm<sup>-2</sup>, respectively. The ratio of N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O is 1:0.27:0.24.

**Keywords:** cotton hybrid N P K optimum formula

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