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栽培措施对周豆19产量及农艺性状的影响

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关键词: 周豆19 (KeySearch.aspx?type=Keyword&Sel=周豆19); 栽培措施 (KeySearch.aspx?type=Keyword&Sel=栽培措施); 产量 (KeySearch.aspx?type=Keyword&Sel=产量); 农艺性状 (KeySearch.aspx?type=Keyword&Sel=农艺性状)

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摘要: 为了充分发挥大豆新品种周豆19的产量潜力, 采用裂区试验设计, 研究了不同施肥组合、密度、化控处理对周豆19农艺性状及产量的影响。结果表明: 周豆19株高、单株粒数、单株粒重随施肥次数的增多而增加; 随密度的增加, 株高和底荚高增加, 分枝数、单株荚数、单株粒数、单株粒重和百粒重均减小; 化控使株高和底荚高显著降低, 但对主茎节数没有影响; 产量随着施肥次数的增多而增加, 随着密度的增加呈先升后降的趋势; 各因素互作以施基肥+2次叶面喷肥、密度30万株·hm⁻²、不进行化控处理产量(3 487.9 kg·hm⁻²)最高。

Abstract: Field split-split plot design was adopted to investigate the effect of fertilization, planting density and chemical regulation method on agronomic traits and yield of soybean cv. Zhouyou 19. Plant height, pods per plant, seed weight per plant increased with the increasing of fertilizing times. With the increasing of planting density, bottom pod height and plant height increased, while branches, pods per plant, seeds per plant, seed weight per plant and 100 seed weight decreased. Chemical regulation remarkably decreased plant height and bottom pod height and had no influence on main stem nodes. Seed yield increased with the increasing of fertilizing times, and showed increase and then decrease trend with the increment of planting density. The highest yield of 3 487.9 kg·ha⁻¹ was obtained under 600 kg·ha⁻¹ basic fertilizer and twice foliar fertilizer spraying at the planting density of 3.0×10⁵ plants·ha⁻¹, without chemical regulation.

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