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[1] 费志宏, 薛盈文, 刘梦红, 等. 黑龙江省中熟大豆品种遗传改良过程中产量和主要农艺性状的演变[J]. 大豆科学, 2014, 33(06): 837-840. [doi:10.11861/j.issn.1000-9841.2014.06.0837]
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黑龙江省中熟大豆品种遗传改良过程中产量和主要农艺性状的演变

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摘要: 对黑龙江省1981~2010年间育成的30个中熟大豆品种产量及农艺性状的遗传改良进行研究。结果表明: 黑龙江省中熟大豆产量在30年间的品种改良过程中提高了32.67%, 平均每年增加1.09%、增产22.38 kg·hm⁻²。株高、主茎节数、单株荚数、单株粒数增加是产量增加的主要原因。主茎节数、单株荚数、单株粒数、单株粒重与产量呈极显著正相关。提高主茎节数、单株荚数、单株粒数、单株粒重是黑龙江省未来大豆高产育种工作的主攻目标。

Abstract: In this study, we identified the genetic improvement of yield and agronomic traits about 30 mid-maturity soybean cultivars released from 1981 to 2010 in Heilongjiang province. The results showed that soybean yield increased 32.67%, 1.09% per year and 22.38 kg·ha⁻¹ per year during the soybean cultivar improvement in the 30 years in Heilongjiang province. This yield increase was assigned to increase in plant height, nodes of main stem, pods per plant and seeds per plant. There were an extremely significantly positive correlation between yield and nodes of main stem, pods per plant, seeds per plant and weight of seeds per plant. The main goal for soybean breeding in high-yield is to select the plant with more nodes of main stem, pods, seeds and more weight of seeds.

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