

农学—研究报告

种植密度及施氮量对红土晒烟产量及品质的影响

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摘要:

为了解掌握红土晒烟适宜的种植密度及施氮量, 为大面积生产提供科学指导和应用的参考指标, 通过在主产区多年重复田间试验比较不同种植密度和施氮量对红土晒烟产量、品质的影响。结果表明, 不同种植密度、株行距和施氮量对红土晒烟的产量、产值以及内在品质都有影响, 其中又以施氮量的影响较大, 尤其在内在化学成分和评吸质量方面, 施氮量显示出的影响要远远大于种植密度和株行距的影响, 因此在生产上宜根据不同的土壤肥力情况进行组合。研究结果表明, 在中等及中等以上肥力田块施氮量宜为45~60 kg/hm², 对应种植密度行距60 cm, 株距30 cm; 土壤肥力偏弱的田块, 施氮量宜为75 kg/hm², 肥力比较弱的可到82.5 kg/hm², 对应种植密度行距70 cm, 株距30 cm。

关键词: 密度; 施氮量; 红土晒烟

Effects of Planting Density and Nitrogen Application Rate on Yield and Quality of Sun-cured Tobacco

Abstract:

In order to search after appropriate planting density and nitrogen application rate and to provide scientific guidance and reference applications for large area production, years of repeated field experiments were made in the main producing areas to compare the effects of different planting density and nitrogen application rate on yield and quality of sun-cured tobacco, the results showed that planting density, row spacing and nitrogen application all had influenced on yield, output value and smoking quality of sun-cured tobacco, among which nitrogen application rate showed much larger impact especially on the chemical composition and smoking quality than planting density and row spacing did. Therefore choosing an appropriate combination should be based on soil conditions. The results indicated that in the field of moderate nitrogen fertility, the appropriate nitrogen application rate should be 45-60 kg/hm² cooperated with 60 cm of row spacing and 30 cm of distance between plants. Field with weak soil fertility nitrogen application rate could be 75 kg/hm² or even 82.5 kg/hm² when poor fertility, and the appropriate row spacing and distance between plants was 70 cm and 30 cm separately.

Keywords: planting density nitrogen application rate sun-cured tobacco

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